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LONDON, SATURDAY, JANUARY 1, 1876.

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THE METAL TRADE-ANNUAL REVIEW.

REMARKS.—At the commencement of the year 1875 the prospects for the metal market bid fair to be, if not all that could be desired, yet such as should result in fair average returns. Towards the close of the previous year there had been some pressure in the money market, such as would have a natural tendency to check speculative operations, but with the turn of the year this feeling of uneasiness subsided, and it seemed probable that a renewal of activity would characterise our markets, and business would improve. These expectations were confirmed, as orders began to come forward from foreign markets, which although small in the aggregate, yet were many in number, so that it was hoped that with the growth of commercial activity as the season advanced larger shipments would follow. The trade of the East, which had flagged for so long, appeared to show signs of revival under the combined influences of a condition of peace, a good monsoon, and the consequent prospects of a fair harvest. On January 14 the state of the money market justified the reduction of Bank rate to 4 per cent, by which financial facilities were afforded, and doubtless the needed confidence would justined the reduction of Bank rate to 4 per cent., by which financial facilities were afforded, and doubtless the needed confidence would have been imparted which would have encouraged buyers to come forward had it not been for the continuance of an unfavourable prognostication regarding the future relations between capital and labour, which had already inflicted so serious an injury upon the producing powers of the country. On January 28 Bank rate was further reduced to 3 per cent., but by this time the affairs of South Wales had assumed so portentous an aspect that the cheapness of money altogether failed to impart any vitality to the market. As the telegraphic wires flashed the intelligence to the four quarters of the globe that in the course of a few days 100,000 operatives might be thrown out of employ, and that the attitude of the contending parties was one of unyielding determination, it was not surprising that operators in our markets should stand aloof and watch the result of the conflict.

At the beginning of February there was but little doing. Holders saw no reason to endeavour to impart vitality to trade by quoting lower prices, for the temper of buyers was such that concession in price at the moment would hardly have proved much of an inducement, so quotations remained very much unchanged, and the market continued dull. On Feb. 18 Bank rate was advanced to 3½ per cent., but no change was observable in the condition of metals. Extreme caution formed the chief characteristic of the market, and, as the event proved, it was just as well that this caution was evention.

caution formed the chief characteristic of the market, and, as event proved, it was just as well that this caution was exercised. About the middle of March several failures were announced, which had naturally the effect of inducing still greater caution, and of still further restricting business, but no important change occurred in the value of metals. After the announcement of the failure of Messrs. im Thurm a slight improvement occurred in the amount of business im Thurm a slight improvement occurred in the amount of business transacted in both copper and tim—in the latter at somewhat improved prices. Towards the close of March the Easter holidays interfered with business, and with the beginning of April there were indications of an improvement, but whether to be of a permanent or ephemeral character it was impossible to say. The spring season had advanced, but without bringing any corresponding advance in the revival of trade. In many parts of Northern Europe the winter had been of longer duration than usual, and it was not until this month had set in that some of these ports were open to trade, but preliminary arrangements had not been made, and advices as to the future were not satisfactory. The position of the money market was steady, and it appeared that with a return to a good understanding between masters and men a profitable business might yet mark the history of the year which was still young.

But April closed, and with it the first month of the second quarter of the year, without any improved result; indeed, owing to the protracted sluggishness of trade prices had fallen, and confidence as to the future was at a low ebb, speculators retired from the market, and the dallows become market.

tracted sluggishness of trade prices had fallen, and confidence as to the future was at a low ebb, speculators retired from the market, and the dulness became more profound. The month of May might possibly have been more fruitful of favourable results had there not been a succession of failures announced towards its close, which again hindered any tendency towards improvement. These, however, were but the forerunners of a heavy list of more serious catastrophes, which were announced during the succeeding month of June. The failure of Collies brought with it a large number of indirect consequences. A universal feeling of disquietude and uncertainty pervaded the minds of City men, and it took some time to establish the assurance that the worst was over, and that fresh complications were not likely to arise. Manufacturers endeavoured to reduce production as much as possible, and as the midsummer pheattons were not likely to arise. Manufacturers endeavoured to reduce production as much as possible, and as the midsummer holidays were now approaching it was thought advisable to postpone all idea of a return to activity in trade, at all events until after the autumn. Thus the first half of the year had come to an end without in any degree altering for the better the condition of trade. All that could be said was that consumption was perforce going on, and that a time must come when a legitimate demand would prove All that could be said was that consumption was perforce going on, and that a time must come when a legitimate demand would prove an encouragement to manufacturers once more to put forth their energies to supply the same at profitable prices. Bank rate, which was advanced on Feb. 18 to 3½ per cent., continued at that rate until July 8, when it was reduced to 3 per cent. During July some measure of anxiety began to be felt about the harvest, in consequence of the heavy and long-continued rains, which were so widespread and proved so diastrous, not only in this country but in the various corn-producing countries throughout the world. Throughout July these fears were not allayed, but at the close of the month the rains ceased and a gleam of welcome sunshine gave promise that the harvest might yet be gathered in in fair condition, and prove. the harvest might yet be gathered in in fair condition, and prove, if not abundant, sufficient to prevent any great scarcity and a rise in the price of bread. With these improved prospects there was a In the price of bread. With these improved prospects there was a measure of improvement in metals; rather more business was transacted, and it appeared as if a slight concession in price as regards some metals would have resulted in considerable business, while as regards others, it seemed that they must be brought to a lower standard before any permanent renewal of activity could take place

in them.

On July 29 the Bank rate was reduced to 2½ per cent. This alteration was very generally expected, because of the difficulty experienced in finding employment for money. Throughout the month of August no change occurred of any importance in metals. The disturbances in Turkey produced no effect upon the metal market. While the Stock Exchange showed fluctuations fraught with very serious consequences, metals remained unmoved. There was very little doing. Production was limited, and many thousands of operatives whose calling was in iron mines or some other branch of inratives, whose calling was in iron mines or some other branch of industry connected with metals, were seeking a livelihood in the more agreeable and remunerative exercises of the harvest field. On more agreeable and remunerative exercises of the narvest near. On Aug. 12 Bank rate was reduced to 2 per cent. During the early days of September the markets maintained their position, and the tendency being generally towards increased firmness, it seemed improbable that there would be any very important fluctuation in

price until the turn of the year.

The autumn trade, if limited in extent, promised to be fairly steady, and though the support afforded by those markets whose ports are closed during the winter would in due course be withdrawn, yet the home trade and that of the Continent appeared to be on a sufficiently firm basis to ensure pretty generally a fair business of a sound character. The credit system had found it impossible to survive such a leave transfer of the course long protracted period of disaster, for never during the many months that had past of the year, and of that which preceded it, had a single favourable opportunity arisen to give new life to this most unsound kind of business. It had received its death blow, and those markets favourable opportunity arisen to give new life to this most unsound kind of business. It had received its death blow, and those markets which had been upheld by the longest credits had naturally suffered most. A wholesale check had been given to schemes which could possibly answer no good purpose, and new undertakings of a less questionable character had been held over until times should improve. On the whole, the business for the month of September, though small in the aggregate, was sound and satisfactory. During the month of October the character of the business transacted exhibited no change. The Bank rate was advanced on Oct. 21 to 4 per cent., but this advance was caused mainly by the withdrawal of struggle was imminent, the magnifude of which it was impossible to gauge, and

gold, and not by the demand for money for mercantile purposes, such demand continuing at low-water mark.

The month of November is generally considered to be the commencement of the dull winter period, and the experience of this year proved no exception to the rule. Not only was the home trade quiet, but the difficulties which encompassed Germany, Spain, Turkey, and Egypt affected our trade with these countries, while Russia, the two Americas, India, and Australia presented no more favourable field for the extension of trade in those directions. During this month violent fluctuations were reported on the Stock Exfavourable field for the extension of trade in those directions. During this month violent fluctuations were reported on the Stock Exchange in reference to certain foreign securities, and rumours of repudiation were very generally current, and the possible overclouding of the political horizon tended still further to intensify the pre-existing dulness, and to diminish the amount of business done. On Nov. 18 Bank rate was reduced to 3 per cent., and a brisk business resulted in bills which had been kept back in anticipation of the reduction of the official minimum, but the metal trade experienced no benefit, simply remaining in statu quo. Throughout December there has been no change of any importance in the position of the markets, and it may be said of almost all metals without exception that holders and producers, buyers and sellers, are comexception that holders and producers, buyers and sellers, are com-pelled to abide the tide of events. No artificial combination, be it what it may, can produce more than a monetary spasmodic action, after which the old condition of affairs returns. What is wanted, and what sooner or later will occur, is a return to the healthy action of legitimate commerce, and the best wish we can express for our readers in the coming year is that they may trim their course with such discretion that when the fair breeze springs up they may be prepared to seize the earliest advantage. Bank rate continues at 3 per cent, to which it was reduced on Nov. 18.

prepared to selze the earliest advantage. Bank rate continues at 3 per cent., to which it was reduced on Nov. 18.

COPPER.—At the beginning of January the price for Chili bars stood at 83/t to 84/t, and the market, though quiet, was steady, and as the charters for the last half of December were light holders became very firm, and a large business was concluded in manufactured, and Chili bars were in request at 84/t. Wallaroo cake realised 93/t. and ingots 94/t. Business was done in 4 by 4 India sheets at 96/t. As the month drew to a close the market became quiet, and at the close Chili bars had receded to 82/t. 10s., 83/t. Business was reported in yellow metal at 8d., and a fair Indian enquiry maintained for 4 by 4 sheets. For the first fortnight in February the firmness of the market continued. Holders would only sell in very small quantities, and at full rates. The chief support arose from Indian advices, and it was thought that this presented a lirner basis for a permanent advance than had it resulted merely from a speculative movement. The market being in a very sensitive condition, a slight increase in the stringency of money kept it quiet, not with standing the receipt of favourable advices, and as the month wore towards its close quotations were not so firmly held as at the beginning. Chili bars, named brands, 81, and g.o.b. 82/t. 10s. Tp to the month of March the charters from the West Coast had been beyond the average, and yet the market had been fairly upited. The announcements of light charters early in March contributed to afford additional stability to prices, and insammed has importers and holders had very generally given higher prices than those at which copper could at the time be realised, there was a marked indisposition to submit to the loss which a sale at current quotations would have involved. The home trade in manufactured was quiet, but, although the Indian demand was not so brisk as it had been, it suffices the holders had been beyond the average, and yet the market would be feuitful of

very generally given higher prices than those at which copper could at the time be realised, there was a marked indisposition to submit to the loss which a sale at current quotations would have involved. The home trade in manufactured was to afford support to prices. Some fair orders shout this time were received on Russian account, and there was an anticipation that the Canadian market would be furtiful of results.

The price of the statistical was a price of for a time, but although the price of the price

IRON.—Three years ago commenced the struggle between capital IRON.—Three years ago commenced the struggle between capital and labour, which has been in one form or another the bane of the iron trade from that time to this. What has been gained by the continuance of the fight it is hard to say. What has been lost is but too apparent. There can be but one universal testimony, that the disaster is of national importance. It affects all classes, and those that are least able to bear the brunt of the battle are they who are called upon to endure the most. It is but little consolation to say

the duration of which could not be foretold. In the expectation of the probabilities which leomed in the future, some of the second class houses held out the balt of quotations considerably below those of the best houses, but without success, Buyers could not be induced to come forward. At the close of the month pig-from was quoted at 72s. 9d. to 73s. 6d. The month of February opened with the intelligence that 100,000 men were thrown out of employ in South Wales by reason of a general look-out. Had it been otherwise, there was a fair prospect of a moderale spring trade. Orders were becoming more plentiful, and for larger quantitie, but under the then existing condition of affairs buyers were constrained to look elsewhere for the completion of their orders. The trade with America and other important markets seemed to have ceased, and the condition of affairs in South Wales seemed to be reflected in the North of England. Furnaces were damped down, and all operations connected with the iron industry began to be contracted within the narrowest limits. No sooner was the make of pig-iron reduced that prices became firm, and at the close of February quotations for mixed number had advanced to 75s.

During March the market showed no improvement, and as matters got no better they naturally got worse. Business became still more contracted, and prices they naturally got worse. Business became still more contracted, and prices they naturally got worse. Business became still more contracted, and prices they naturally got worse. Business became still more contracted, and prices they naturally got worse. Business became still more contracted, and prices they naturally got worse. Business became still more contracted, and prices they naturally got worse continuance of work, which was much wanted in the North of England some orders for finished iron were booked, which seemed to afford some hope of a continuance of work, which was much wanted in the land of the conocity of the close of the month it became prety clear that the an

the close of the month it became preity clear that the animation which had characterised the early part was but of an ephemeral nature, and things had one more drifted into the old condition of dulness. Scotch pigs, mixed numbers, were quoted 67s. 3d.

The weekly reports of the trade in the month of May were relieved from the dead level of the weary reicration of no change by a final letter from Lord Aberdare, in which was shown from data furnished by the men themselves what, at a moderate computation, the losses inflicted by the conflict involved. A total los in wages of 3,000,000, was the result of careful calculations. The consequential losses to capital on the one hand, and to the men on the other, it was impossible to compute. During the month the activity of foreign competition became in creasingly apparent, but the disease was of too malignant a character for eves such starting revelations as these to effect any change for the better. By the end of May m.n. Scotch pigs were quoted 60s. 9d. The disclosures made in the month of June did not tend to make matters more chereful. The failure of the Aberdare Company was announced. The balance-sheet of the Ebbw Vale Company exhibited a loss of 50,000, upon the year's operations, and as the weeks rolled by it only appeared that masters and men were drifting more hopelessly apart, and consequently there was but a minimum of hope that a satisfactory settlemest would be arrived at. The quotation for Scotch pigs, m.n., was at the end of Juse the same as at the end of the previous month. The month of July was as like its predecessors as possible. However ready the contending parties might have been formed to take the orders which might have been executed the end of July Scotch light, m.n., stood at 60s. 3d. During the first week in August there were some soft of the month of the parties of the parties might have been executed to take the orders which might have been executed the end of July Scotch light, m.n., stood at 60s. 3d. During the first week in August than low

Lead.—At the beginning of the year lead was very firm, and in consequence of the decreased production it seemed probable that prices would be fairly maintained. Good soft English pig realised, in the month of January, 23/. 15s. During February the market was very quiet, and quotations receded to about 22/. 10s. for English pig, and 22/. for soft Spanish. The tendency of prices during March was still downward. The advices from China were not very satisfactory, and at the close of the month good soft English pig was quoted at 21/. 5s. Throughout April the market became firm, and prices rose to 22/. 15s. for English pigs. Until the middle of May the market continued firm, but during the second half of the month quotations were maintained, but only a limited business was done. The month of June witnessed no improvement. The market continued finalimate, and at the close the price of English pig rose to 22/. This advance was fully maintained throughout August, and at the close the price of pig-lead had advanced to 23/. There was no change in September, nor until the middle of October, when prices became somewhat easier, and at the close the price and the close the price of pig-lead was quoted 22/. 10s. From this time to the middle of October, when prices became somewhat easier, and at the close the price and the close the price of pig-lead was quoted 22/. 10s. From this time to the middle of October, when prices became somewhat easier, and at the close the present quotation for good soft English pig-lead being 22/. 15s., and soft Spanish, without silver, 22/. 5s.

Quicksilver.—The following extracts from an article in the San

QUICKSILVER .- The following extracts from an article in the San Francisco Journal of Commerce upon quicksilver may prove of in-terest to some of our readers:—"No one can tell the extent of the quicksilver resources of the State, and it has been only within the derest to some of our readers:— As one can tell the extent of the quicksilver resources of the State, and it has been only within the past two years that an approximate idea of their extent could be had. During these two years there has been done more in the way of developing them than for 23 years previously, and the article itself has become quite an important one in a commercial sense, ranking fourth in our list of exports. The future development of the business of quicksilver mining promises to raise it to even a much higher position. The total quantity of quicksilver produced in the State since the first opening of the mines up to Jan. 1, 1875, may be estimated at 683,879 falsaks, or 62,224,3301bs. Of the production since the beginning of the year no exact figures can be yet given, but up to Nov. 1 it may be estimated at 33,000 falsaks, or 22,244,3301bs. This would make the total production of the State up to Nov. 1, 116,979 flasks, or 67,748,893 lbs. Of this the recorded exports by see have been little more than one-half, the balance having been used in the mines of the Coast, or exported previous to 1859. The production of the first 10 months of the present year has been in the neighbourhood of 35,090 flasks, of this about two-thirds has been exported by sea, the balance of about 11,500 flasks is left to be used in the mines, but as the utmost that lis been taken in that way previously has been 7000 flasks, this would show an immense increase in the consumption during the present year. California will this year supply a little less than one-half the world's consumption, or about 40,000 flasks. The total supply will probably be—

Almaden (Spain) — Flasks 36,000 Psiatinate (Germany) — 1,000 California — 40,000

California 40,000

In 1348 California supplied over 43,000 flasks, and next year will supply even more than that. In a few years it will become the principal producing country in the world. The Spanish mines of Almaden have been worked since the time of the Carthagenians. Its product in modern times has varied from 30,000 to 40,000 flasks annually, and it cannot be expected at this time to produce much more Neither can the mines of Germany. The production of the Hungarian mine at Idria has been in former years restricted by law to the production of 4000 flasks annually. During 1874 it produced double that amount, its total estimated producing capacity yearly being 16,000 flasks. There are deposits of quicksliver in South America, but there is no prospect of their being worked for some time. The present consumption of England is from 40,000 to 50,000 flasks annually—sty 45,000. That of the rest of the world is about the same, so that any linerase lated by the price. The price here during the next year cannot fall below 50c. to 55c., and will not advance much beyond 75c. to 50c., but he low price is a paying one, and an increased consumption would do much towards keeping up the gros profits of those engaged in quicksliver mining to their present level. The course of the London market throughout the year can be followed by reference to the subjoined table of prices upon stated dates: —Jan. 1, 1875, 242.; Feb. 1, 224.; March 1, 114.; Sept. 1, 114. Ills.; Oct. 1, 14s. 10s.; Nov. 1, 124.; Feb. 1, 124.; Meach 1, 114. Dec. 3, 114.

Tin.—At the commencement of the year there was a speculative.

TIN.—At the commencement of the year there was a speculative movement in this metal, and 94. 103. was paid for Straits and 93. for Australian. During the first fortnight of January prices were firmly maintained, but at the close of the month Straits was not worth more than 92. Throughout February the market lacked said of the more than 92. worth more than 9.2. Throughout February the market lacked alimation, and at the close quotations had fallen to 90. By the middle of March values had fallen to 84. For Straits, when there was a sudden reaction, and at the close of the month the market was firm at 90. From this point till the end of April the tendency was to lower prices, and at the close Straits stood at 53. There was but little variable throughout May, and during June a fair business was does, and the market was firm at slightly advanced quotations. At the close 52. 10s. was the price for Strait.

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During the whole of July there was very little doing, and prices ruled downwards; at the close Straits was quoted 76%. 10s. But during August the market rallied, and prices gradually improved until at the close the quotation for Straits was 221. 10s. to 8.3%. The improvement continued throughout September, and at the close Straits stood at 8%. All October the market was quiet, but prices were fairly sustained; at the close 55% was quoted for Straits. During November prices fluctuated, but at the close of the mouth the value of Straits showed a drop to 22.10s. No new feature occurred during the mouth of December, and at the close of the year Straits tin rules at 81%. 5s.

THE SCOTCH IRON TRADE-ANNUAL REPORT.

The year 1875 may be described as commercially unsatisfactory.

Embarrassments on a gigaatic scale—mercantile and financial—marked its progress, and in some instances disarranged the ordinary course of business. These combined have intensified and prolonged marked its progress, and in some instances disarranged the ordinary course of business. These combined have intensified and prolonged the depression experienced in the iron trade. According to the authorised statistics, the production of pig-iron for the year just ended was 1,080,000 tons, which shows an increase of 244,000 tons when compared with last year, and brings up the total to 170,000 tons, as undernoted.* The exports of fron and steel have fallen off 8½ per cent. in quantity, and 21 per cent. in value, which tells adversely on the manufactures of the year. Taking the general aspects of the Board of Trade returns, the result of the year's work exhibits a notice-ble decrease in the exports—hence it follows that, whatever prosperity 1876 may unfold, the present year shows a d-cline in the business of the country, and a lull in the commercial energy of the world. The fluctuations in the price of gm.b. during the year have ranged between 77s in January to 58s. in June, giving an average in the twelve months of 65s. 91., against 87s. 61.—the average of last year. Special brands, however—such as Garsterie, Collines, Calder, Ghenzarnock, Langloan, Summerlee, and Shotts—were better, and fluctnated between 92s. 61. and 70s. per ton. The stock of pig-iron abroad is everywhere small, with the exception of the United States, where it is returned at one million tons. Founders have generally been well employed, but the malleable works and shipbuilding yards have experienced a langour which they have found it difficult to overcome. There are indications, however, that with cheaper labour a revival in these branches may be looked for; but, in order to bring about this very much desired result, workmen must show a greater willingness to submit to those inexorable laws which regulate supply and demand both for employer and employed.

Statistics Of THE SCOTCH IRON TRADE.

Proprietors	i.			ist.			Total
Wm. Baird and (Jo	Gartsherrie	13		3		16
ditto		Eglinton	6		2		8
ditto		Lugar			_		4
ditto	************	Muirkirk	3	*****	_	*****	3
ditto	********	Portland	3		3		6
Merry and Cunin	ghame	Glengarnock	7		2		9
ditto		Ardeer	4				- 5
ditto		Carnbroe					6
Coltness Iron Co.		Coltness	12		_		12
Dalmellington Ir	on Co	Dalmellington					8
Monkland Iron a	nd Coal Co	Monkland	9				9
Robert Addie and	Sons	Langloan	6		-		8
		Summerlee					8
		Clyde					6
		Quarter			1		5
		Govan			î		5
ditto		Calder	3		4		7
	********	Shotts	3		_		3
		Castlehill			1	******	3
		Wishaw			1	******	3
George Wilson or	d Co	Kinneil	2				4
Lookgolly Iron C	0	Lochgelly	_	******			
A Christia and C	0	Lumphinnans	-	******			
		Carron		******			6
		Almond			-		3
		Bridgeness					3
					2	*****	2
Total		*************	114				355
10tat	***********			****			
* Messrs. Conn	al's stores	Dec.	33,29	9		33,8	75
In makers' ha	ands, as per thei	r returns 10	06,70	1		62,1	25

The World's Product of Silver.—An interesting table, showing some of the leading estimates which have been made of the world's product of silver, has been prepared by Dr. R. W. Raymond, of the New York Engineering and Mining Journal, showing that whilst in 1800 the annual yield was about 7,000,000%, in 1850 it had increased to over 8,500,000%, in 1854 to 9,500,000%; and in 1865 to 12,500,000%; whilst Dr. Raymond's estimate for 1873, based upon the latest available official returns, shows—Great Britain and colonies, 200,000%; Sweden and Norway, 50,000%; Russia, 100,000%; Austro-Hungary, 320,000%; Germany, 600,000%; France, 400,000%; Spain, 400,000%; Sardinia, 100,000%; Mexico, 4,000,000%; Central and South America, 1,600,000%; Canada, 180,000%; and the United States, 7,300,000% = 15,250,000%. The grand total of the silver product from the discovery of America to the present time is estimated at the sum of 1,430,000,000%.

AUSTRALIAN GOLD MINING.—The Magdala shaftat Pleasant Creek, Stawell, was down to 1702 ft, at the late-t accounts from Melbourne. The solid mass of stone composing the upper part of the lode has been passed through, and below it a strong body of stone has been met with, which is highly charged with pyrites, and contains gold. The mining manager reports that there is good evidence of the existence of the junction of this lode with a vertical lode to the west of the shaft, and that he feels certain he will find more quartz before he reaches the footwall of the reef. No trial of the quartz has yet been made to any extent sufficient to show the value of the discovery of the company, as the management have determined not to crush until at least 200 or 300 tons can be operated on at once, so as to give good evidence of the quality of the stone. It will be some few weeks yet before such a trial can be made, and either from the fact of having to wait so long before any test is obtained as to the value of the quartz, or from a belief that the quartz is not so rich as was at first supposed, there has been a considerable reduction in the price of shares in the company. Soon after the striking of the reef the at first supposed, there has been a considerable reduction in the price of shares in the company. Soon after the striking of the reef the shares went up from 8s. 6d. each to 7l. 10s.—an unreasonable rise, when no proof of the stone had been made. They have since fallen to 2l. 10s. The North Cross Reef Company, whose ground adjoins the Magdala Company, at their monthly crushing in October, hat the magnificent yield of 2334 ozs. of gold from 1698 tons of quartz, and the same company have now obtained such rich yields for so long a time that their mine has proved itself to be one of the richest ever opened in the world. Although the reef the Magdala Company have obtained is not the same as the North Cross yields are taken from that reef is supposed to exist in the Magdala claim at a depth of 800 ft. or 900 ft. from the surface, and efforts are being made to find it. The reef they have got is the one that has been worked to great advantage in another neighbouring claim, the Extended Cross Reef; and if it proves to be as rich as it is in that claim the mine will be exceedingly valuable. exceedingly valuable.

RAPID BORING.—A remarkable example of rapidity in deep boring has recently been furnished by the first bore hole put down by a company formed to search for coal in Switzerland. A depth of 1422 ft. was reached in two months, including the re-boring of the upper 640 ft. from 3½ to 7 in. in diameter. The work was done including all delays, at a rate over 1000 ft. per month, the highest speed being nearly 77 ft. in 24 hours. The results obtained were negative, the section showing about 1200 ft. of Permian strata resting upon old crystalline rocks; but the trial is only the first of a series.—Athenæum.

COMPRESSED AIR LOCOMOTIVES.—An improved compressed air locomotive has been invented by Mr. LEON RIBOURT, of Altdorf, Switzerland. The locomotive is like one of ordinary construction, having, instead of a boiler, a large and strong reservoir, which is charged with compressed air, and having large cylinders, so as to work with moderate resum a numer that of the control of the cont charged with compressed air, and having large cylinders, so as to work with moderate pressure under that of the partly exhausted reservoir. Between the main reservoir and the cylinders are placed the regulating apparatus and a small subsidiary reservoir in the course of the pipe from the regulator to the cylinders. The regulator consists of two pistons connected together to work in a cylinder, open at one end to the air, and at the other end communicating with the subsidiary reservoir, while the middle space, between the two pistons, communicates with the main reservoir, and also by side holes with the subsidiary reservoir, these holes being governed by a silde attached to the pistons. The pistons are pressed inwards by the atmospheric and by an adjustable spring, and coording as the latter pressure exceeds or falls short of the atmospheric pressure, isided by this spring, so the silde covers or uncovers more or less the holes in the cylinder; and thus, notwithstanding considerable variation of pressure in the main reservoir, the working pressure in the subsidiary reservoir is maintained const. nt, or nearly so, and within limits may be varied by altering by an adjusting screw the force of the spring.

SAFETY-VALUES.—The activation of the stream of the subsidiary reservoir is maintained const.

required pressure, and a lower valve loaded with the pressure of the steam in the boiler. This latter feature of a steam-loaded valve is the essential peculiarity of

MINING AND STOCK EXCHANGE NEWS OF THE WEEK. Messrs, F. W. MANSELL and Co. (Sworn Stock and Share Brokers),

Pinner's Hall, Old Broad-street, write to us as follows:-

Messra. F. W. Mansell and Co. (Sworn Stock and Share Brokers), Pinner's Hall, Old Broad-street, write to us as follows:—

Eighteen Hundred and Seventy-Five will be recorded in the pages of mining history as a year not without its measure of success; yetrife enough have been its events that should act as danger-beacons in the future. Probably fewer mines have been introduced—fewer still that merit investors' attention. Mining, being pre-eminently speculative, necessarily has its blanks; it also has its prizes, in value far transcending the realisations of any other enterprise. Legitimate failures in resultant effects are harmless contrasted with the injury of schemes whose only purpose is the aggrandisement of vendors and promoters; shareholders seldom unreasonably complain if the failed mine has been honestly wrought, and the whole venture a fair one; the opposite it is that engenders angriness, often not without ample justification. However, as a period of recovery from a collapse consequent upon a former wild inflation, the year just closed has been neither unfruitful in its wholesome lessons nor discouraging in its profitable results, while the outlook for 1876 in several material respects is much more favourable than, at least, since 1865-6; if there be anything in the "theory of decades," that is only an addition to the many more solid grounds why the year now entered upon is destined to prove greatly more prosperous than any for a long time past.

In our selection at the beginning of 1875, among foreign mines, we advised St. John del Rey at under 260. We then remarked thus—"Mining shares as investments have special characteristics, differing in a marked degree from those attaching to any other class. The very nature of these under takings plainly indicates that they are investments of a speculative character; in no other class, indeed, is this feature so dominant as in mining shares. As long as a mine is worked there always remains some hope and some chance that profits may be realised. The return is nece

"These shares receive an interest equal to between 13 and 14 per cent. per annum, the dividend being 14. per share quarterly. The extraordinary mines possessed by this company are opening up greater and richer deposits of copper as development progresses: the means and facilities of extraction and transport are now upon a scale ensuring the return of resources conomically and profitably. For a steady and progressive investment these shares well deserve attention, to say nothing of the great probability of an immediate advance in price."

Since then Cape Copper has continued to pay its regular quarterly dividends of 1t. per share, and the quotation is 38t, equal to an advance upon the year of something like 10t. We also advised Richmond Consolidated shares, which were then standing at something like 6t; the quotation has since been 16t. Referring to this mine at the time, we wrote that:—

like 6l.; the quotation has since been 16l. Referring to the time at the time, we wrote that:—

"Not a few of our clients are able to bear testimeny to our persistency in advocating the purchase of those shares long before the first dividend had been paid, and when many who now hold a considerable interest in the company had misgivings as to the soundness of our advice. We are free to confess that the mine has opened out more rapidly that we had originally anticipated—indeed, no one practically connected with the property even for one moment dreamt that it could have possibly non-bosomed such deposits of wealth in a period of time so comparatively short. During 1875 these shares are likely to command higher prices."

Eberhardt shares we also recommended at \$\frac{1}{2}\llots\$, and the price has since been 9l. BLUE TENT CONSOLIDATED HYDRAULIC GOLD forms the only exception; these shares have not improved. Why? Because the completion of the 30-miles canal has been a work of greater difficulty, and occupied more time, than calculated upon; this important work has at length been successfully finished, and gold-washing actively commenced. Henceforward such results will be realised as to establish Blue Tent the most profitable gold-washing enterprise in California. Our recommendations of home mines at the beginning of 1875 was limited to one—Van; at the time the price was 22l., it is now 32l.; the dividends are increasing, and mine we regarded unworthy attention; a hornet's nest, virulent and malignant, would be raised were we even to name but one instance in which our unfavourable opinion has been unhappily confirmed—left the sufficient for those who took our hint, and prostance in which our unfavourable opinion has been unhappily confirmed—let it be sufficient for those who took our hint, and proted thereby.

At the beginning of 1876 it would be difficult with safety to vary

At the beginning of 1876 it would be difficult with safety to vary the selection we published at the commencement of 1875, although in each case (excepting Blue Tent) a sensible advance in market value has taken place. But two prominent enterprises must now be added to our list—Argentine Gold and Pateley Bridge Lead Mines and Smelting Company. Upon previous occasions have these two mines been so fully described that we need now only repeat our firm conviction that during 1876 the Argentine Gold Company will certainly take the lead among foreign mines, and that prominent certainly take the lead among foreign mines, and that prominent among our most successful home lead properties will rank Pateley Bridge Lead Mines. The bases upon which we have founded our favourable opinion have been previously set forth—"He who runs may read."

BLUE TENT CONSOLIDATED HYDRAULIC (Gold),-Those who

BLUE TENT CONSOLIDATED HYDRAULIC (Gold),—Those who have followed our remarks upon this extensive property will be prepared to find it spoken of in the most favourable terms by the leading hydraulic mining authority in California—Prof. Price, who having satisfied himself as to the great value of the mines, consented to accept their personal management. After some months' experience of the property, Prof. Price has thus written:—

"Of the real value of your property I have not the slightest doubt or misgiving, situated as it is on the auriferous gravel belt, and every season is bringing it to a much better condition, so as to be attacked by the water. I see no reason why, by proper working and due regard to economy, this property should not pay well at no very distant future. . . For the first time the company is in a position of self dependence as regards the successful working of its mines, possessing all the elements necessary for profitable hydraulic mining—an extensive tract of auriferous gravel, situate on the true belt, and of undoubted richness, a good and permanent outlet for expeditious work, and the disposition of tallings; a large and well-constructed ditch, affording a large volume of water for at least seven months of the year. All that now remains to be desired is the supply be further increased until there is a perennial flow, which can be accomplished by improving the company's lakes, and constructing reservoirs at suitable places; this work can be done gradually, and from time to time."

The above statement is a further confirmation of the opinion we have often expressed of the Blue Tent property—that it will prove the most successful hydraulic mining enterprise in California. Advantage should at once be taken of the temporary decline in the market price of the shares.

ARGENTINE: St. JOHN DEL REW (Gold).—It appears necessary

market price of the shares.

ARGENTINE: ST. JOHN DEL REY (Gold).—It appears necessary to again state the leading reasons inducing the opinion that the consolidation of the mines forming the property of the Argentine Company will be eventually equally profitable with St. John del Rey. The reasons are plain:—The geological formations are identical, and the lodes constitutionally similar. There are also other special reasons giving Argentine an important a Ivantage over St. John del Rey.—I. The greater richness of the veins (2 ozs. of gold per ton as against a little over 1 oz.).—2. Less cost in working (40 to 50 fathoms deep as against 300 fathoms).—3. Smaller capital upon which to pay dividends (60,000), as against 253,000). Evidence beyond this cannot be demanded in verification of the emphatic statement of the special commissioner—"That the Argentine mines are no speculation, and require only to be put in thorough working order, and systematically laid out and energetically worked, to make them pay rich and lasting profits."

San Pedro Copper (Chili).—This company has a capital of

San Pedro Copper (Chili).—This company has a capital of 75,000l in debentures and shares (fully paid). It has emerged from some temporary financial difficulties, and now bids fair to take a prominent position among bona fide undertakings. The machinery and mines are in full working order, and the reports for the past

two months have been entirely satisfactory. Shares, which were formerly at 7*l*. each (5*l*. prem.), seem likely again to command a higher value.

ROMAN GRAVELS (Lead).—Those of our clients who have purchased these shares upon our recommendation will be pleased to learn that a new lease for 25 years, dated from January, 1876, has been signed. The new shaft awaits the erection of the necessary machinery, which will be erected forthwith, this will enable the company to economise its workings, and greatly increase its returns. Meanwhile, the lower levels are opening up fine courses of ore, with every indication of increasing the remunerative stability of the property. Shareholders have already received dividends amounting to more than 13,000% upon a capital of 90000%.

amounting to more than 13,000\(lambda{\text{U}}\) upon a capital of 9000\(lambda{\text{U}}\).

PATELEY LEAD MINES AND SMELTING COMPANY.—Satisfactory reports continue to be received from these mines—private ones more than confirm the official. Each point of operation fully maintains its value, and upon some of the veins improvements have taken place. The "New Discovery" is now worth 1 ton of lead per fathom; the Gulf vein, which is 8 ft. to 9 ft. wide, is producing 25 cwts. of lead per fathom; Pringap vein, 5 ft. wide, is yielding "fine stones of ore." Another pioneer point of operation is Gillfield level. Here satisfactory progress is being made, and the manager writes:—"I hope shortly to have something encouraging in this part of the mines." The machinery is working well, surface operations progressing favourable, and furnaces in full employment.

RICHMOND CONSOLIDATED (Silver).—The returns this week are

RICHMOND CONSOLIDATED (Silver).—The returns this week are disappointing, not so much from the lessened amount (\$38,000 against \$46,000 last week), but because no reason has been assigned for the falling off. The statement of the manager, made a few weeks since, that the returns would be "increased forwith," is still unconfirmed.

weeks since, that the returns would be increased forwith, is still unconfirmed.

Van (Lead).—We have to congratulate those of our clients who purchased shares in February last, when we wrote as follows:—
"We can recollect when, upon the expectation only of cutting this lode at a depth of 45 fms., the shares advanced to 80%; since then the mine has continued to open out in a manner uncaulled by any other property in the United Kingdom, gradually adding to its already enormous 'reserves' of ore, and continued to open out in a manner unexpected with the continued to pay satisfactory quarterly dividends, and yet now that the lode has been cut, and cut rich at just double the depth—90 fms.—the shares can be purchased at 23%. While this depression continues, which has been brought about by exceptional and temporary circumstances, without any reference to the mine itself, our clients should avail themselves of the opportunity to purchase while it is afforded. Dividends are assured during the lifetime of at least the present shareholders, while a substantial rise in market value may reasonably be expected."

The shares have improved to 33%; the quarterly dividend has been increased to 15s, per share; upwards of 40,000% has been divided in profits during the year; and some of the most valuable improvements made for a long time past have just been announced—viz., in the 75 west the lode is now worth 100%, per cubic fathom, and in the 95 west the lode is for the same value. The most important discovery, however, is in rich stones of lead coming into the shaft at a depth of 105 fms., showing that at this increased depth the lode has increased in size by at least 7 fms. The value of this discovery it is impossible to over-estimate.

Hydraculae Gold Minnag.—Should the nature of the ground admit the start of the ground deptitive circles of a chaff or a place in its provential to a content of the ground admit the circles of a chaff or a place in its provential to a content of the ground admits the circles of a chaff or a place

at a depth of 105 fms., showing that at this increased depth the lode has increased in size by at least 7 fms. The value of this discovery it is impossible to over-estimate.

Hydraulic Gold Mining.—Should the nature of the ground admit the sinking of a shaft or incline it is advisable to do so; even after the tunnel has been completed, water introduced, and everything ready for hydraulic operations the opening of the mine will have to be done either by shaft or incline. It is, however, very often, and particularly in those deep gravel deposits which were never submitted to drainage, a costly and difficult job to sink a shaft or incline, by reason of the quicksand and loose gravel. The miner must, therefore, consult the extent of his means before he ventures upon hazardous operations. The character of these ancient deposits, generally speaking, is the same. Though they may differ in the hardness and compactness of the gravel, or may have been disturbed by local influences, still there is a prototype, the description of which may fairly apply to all. The oldest gravel deposit found in these ancient channels is the deposit known under the name of blue lead. This deposit is always found deepest in the channel and nearest to the bed-rock; it is composed of boulders of serpentine rock, talcose slate, and, in fact, all other rocks belonging to the slate family; besides this, of quartz in boulders, gravel, and sand, with an admixture of clay, the presence of the latter being always considered a favourable sign of richness. The whole mass is of a colour varying from blackish green to indigo blue. The quartz, though originally of pure white, is tinged blue, and neither washing nor exposure will discolour it. Very often a deposit of huge boulders, rather rough and angular and intermixed with only a little gravel, is found near the rim-rock—a mass resembling very much a moraine, sometimes only a few inches in thickness, but gaining steadily in size in the same ratio as the moraine diminishes, till finally the bed-rock is r

hydraulic operations.

STOCK EXCHANGE GENERAL MARKETS.—In low-priced securities, to which we directed attention last week, speculation is encouraged because instances of rapid, and for several reasons remarkable, rises in price have occasionally been recorded in past experience amongst them, and the turning up of one prize now and then is sufficient to make these low-priced securities worth attention. In addition to the chances of a great rise in market value, brought about by some decided improvement in the position of the investment, or sometimes by a speculative working of the market called a "rig," there is also a chance of a smaller but far less uncertain profit accruing on these stocks from the almost incessant fluctuations in prices. Losses may arise from these latter movements as well as profits, hence caution and experience are necessary to make a judicious selection.

FORE!GN MINING AND METALLURGY.

The experience of the Creusot Iron Works Company in 1874-5 illustrates very ciearly the difficulties and depression against which French metallurgy has for some time past been struggling. The dividend of the company for 1874-5 has been fixed at 2l. per share, as compared with 2l. 16s. per share paid for 1873-4, and even the reduced dividend was a larger one than the council of administration altogether approved of. Low competitive rates have occasioned the present troubles of Creusot. Nothing has occurred during the last few days to modify the aspect of the French iron trale. A considerable extent of new railway has been conceded in France, and a siderable extent of new railway has been conceded in France, and a good many new lines are in actual course of construction; but on the other hand, the continually increased use of steel on railways checks the demand for iron rails. At present it is difficult to predict when th the period when the existing depression in the iron trade will terminate. The Levant du Flenu Collieries Company will pay on the 3rd proximo statutory interest for 1875 at the rate of 2l. per share. The Sars-Longchamps and Bouvy Collieries Company will pay on the 3rd proximo statutory interest for 1875 at the rate of 2l. per share. Other Belgian coal mining companies will also pay interest on the 3rd proximo as follows:—Charleroi United Collieries Company, 1l. per share, 2rd durit Collieries Company, 2l. per share; and Moncau.

3rd proximo as follows:—Charleroi United Collieries Company, 11, per share; Produits Collieries Company, 21, per share; and Moncau-Fontaine and Martinet Company, 22, per share.

Business in copper has been comparatively restricted at Paris, and quotations have been almost nominal. Chilian in bars has been quoted at S51, 4s.; ordinary descriptions, 841; ditto, in ingots, 884; English tough cake, 861; and pure Corocoro minerals, 841, per ton. Copper has been pretty well maintained at Marseilles. Trai actions in copper have presented no great importance upon the German markets; prices have experienced comparatively little change. Banca tin, delivered at Havre or Paris, has been quoted at Paris at 904; Straits ditto, 871; and English, delivered at Havre or Rosen. 861, per ton. The German tin markets have been rather firm; this remark has especially applied to Berlin. Lead has not varied upon the Paris market. French lead, delivered at Paris, has made 221, 12s.

Spanish ditto, delivered at Havre, 22s. 8s.; English ditto, 22l, 8s.; and Be'gian and German, delivered at Paris, 22l. 16s. Lead quotations have been firmly maintained in Germany; no large transactions have been reported. There has been little business passing in zinc at Paris, but prices have been pretty well sustained; Silesian zinc, delivered at Havre, has been quoted at 26l. 16s. per ton. At Marseilles zinc has experienced little change; rolled Vieille Montagne continues to be quoted at 34l. per ton. There has been little doing in zinc in Germany, in consequence of the scantiness of stocks. The frost having broken up in Belgium, deliveries of coal by water have resumed their ordinary course in that country, and stocks which have accumulated at the pits' mouths are rather rapidly disappearing. There are complaints of an inadequate supply of railway trucks. The coal trade has remained animated in the various Belgian coal basins; a strike still continues in the Centre, and there does not appear to be any immediate prospect of a termination of the difficulty; the men on strike are, however, very quiet. The La Haye Colliery Company has just constructed a tunnel of some little importance for the delivery of the coal which will soon be extracted from a new pit which is being sunk in the Saint-Gilles field. The tunnel is of sufficient width to admit of the passage through it of two sets of trucks. The French coal trade remains in much the same state, and there appears to be little probability that the opening of the New Year will witness any material increase of animation. Upon the whole, the French coal trade has not done so badly during 1875; wages have fallen, and the prices obtained by colliery proprietors have been fairly remunerative. The past year has, how-Upon the whole, the French coal trade has not done so badly during 1875; wages have fallen, and the prices obtained by colliery proprietors have been fairly remunerative. The past year has, however, witnessed a lamentable number of accidents in French coal mines. The coal trade of the basin of the Sarre is stated to have slightly improved during the last few days. The French Railway Plant Company has announced an interim dividend for 1875-6 at the rate of 12s, per share. Measures are being matured for the improvement of the port of Genoa. The object is to make Genoa one of the most important commercial ports in the Mediterranean. The engineer who has been consulted is Signor Amithan:

diterranean. The engineer who has been consulted is Signor Amithan diterranean. The engineer who has been consulted as Signor Amithan; he suggests the construction of a very extensive breakwater, as well as sundry new quays, warehouses, &c. The Duc de Galliera has just made a large donation to the authorities of Genoa, The generous donor stipulates that his munificent gift shall be applied—at any rate in part—to an extension of the port of Genoa. Any movement likely to add to the commercial importance of Italy can scarcely fail to be of some interest to the coal and iron trades.

Matters can scarcely be said to have improved in the Belgian iron trade; any change which has occurred has been in adverse direction rather than otherwise. Notwithstanding a reduction in the production, and an acceptance by the works of very low selling prices, the winter does not present itself in at all an encouraging aspect, and the future is almost equally gloomy

THE MINERAL RESOURCES OF TURKEY.

Surprise has sometimes been expressed that although the mineral resources of Turkey are acknowledged to be considerable, so little has been done to develope them, but the address recently presented to the Grand Vizier by Turkish mine adventurers, and to which brief reference was made in last week's Journal, will explain why Turkish mining enterprises are to be so carefully avoided. The address stated that the deputation, being interested in the mining industry of the country, submitted suggestions for reforms which seem n of the country, submitted suggestions for reforms which seem necessary to ensure the creation of that industry in Turkey, which, combined with agriculture and commerce, will be the means of raising Turkey to the level of prosperity enjoyed by the countries in which that industry is flourishing. They truly point out that whilst the mine adventurers' chances of success are more or less doubtful their enterprise will always be advantageous to the country, and, consequently, to the Government, and that the benefit accruing to the latter begins with the first stroke of the pickaxe, and continues throughout the duration of their undertaking, for it is indisputable that all capital engaged in mining enterprise is so much gained by

throughout the duration of their undertaking, for it is indisputable that all capital engaged in mining enterprise is so much gained by the country, and is from the first subject to the fiscal laws of the Government, whatever may be, and irrespective of, the results obtained by the concessionaires. And they add that it is no less certain that the promoters of industry are the best supporters of all Governments, because they create, so to say, labour and contentment, diffuse wealth, and thus render the population conservative, and, consequently, enemies of disorder.

The mere statement of reforms required will suffice to satisfy the miners of other countries that it will be long before they need fear the competition of Turkish mines. The principal obstacles to the development of mining industry in Turkey are described as having their origin in the difficulties raised by the Mining Department to the sale or transfer of concessions and in the refusal to recognise and register contracts and mortgages; in the vagueness of certain articles of the mining law; in the conditions, wholly unjustified by the law, which the department in question imposes at the last hour before delivering a concession, under the name of sharname (specifications) and moukhavilename (convention); in the absence of a technical council of mines whose decisions should constitute an unimpeachable title: in the want of means of communication an transport; and lastly, though not least important, in the insecurity of life and property. It appears that the mining administration has refused to recognise the decrees of competent courts, the communications of the idira djemieti, confirming sales and concessions, and the takrirs (verbal declarations) of the sellers made before that administration, and it has even disregarded ordess emanating from the Council of State, pretending, in flagrant contradiction of Art. 7. and the taking (veroal reclarations) of the sellers made before that administration, and it has even disregarded ordess emanating from the Council of State, pretending, in flagrant contradiction of Art. 7, that a mine was to be considered as "mulk" property, and that, therefore, a verbal declaration of the seller, or, failing that, a special order from the Grand Vizier, was necessary for the execution of a transfer. And it is very fairly asked what capitalist would interest hinself in a mine with the prospect of an interminable lawsuit for furning a dishonest seller to give his taking. Expecially as some In meet in a mine with the prospect of an interminate lawsuit for forcing a dishonest seller to give his takrir? Especially as some articles of this law are so obscure and so elastic, particularly in the Turkish text, that interminable disputes arise from the interpretations given by the Administration of Mines—disputes which are usually referred to the Council of State, where their settlement is kept indefinitely in abeyance.

Attention is specially directed to the fact that the Administration of Mines interpreta certain articles of the law as meaning that the

Attention is specially directed to the fact that the Administration of Mines interprets certain articles of the law as meaning that the Government has a right to appropriate any mine, whatever its value, on indemnifying the discoverer for the expenses which he shall prove that he has made—a view which scares capitalists and discoveres mining research. Again, the vagueness of the law leads to an infinite number of regulations and circulars being dispatched backwards and forwards between the central authorities and those of the requirement and innumerable annowing formultipalisms to be seen the contral authorities and those of the provinces, and innumerable annoying formalities have to be fulfilled successively in the villages, cazas, caïmakamliks, mutessarifiks, in the vilayets, and in the capital. And these, too, have to be repeated on taking out prospecting license, on registering discovery of mine, on dispatch of official samples, on the exportation of mineral extracted whilst prospecting, on the drawing up of plans, on the verification of boundaries, and on the posting of points. of mineral extracted whilst prospecting, on the drawing up of plans, on the verification of boundaries, and on the posting of notices. Then references have to be made from one ministry to another—from the Council of State to the Ministry of War, Ministry of Marine, sometimes to the Grand Master of Artillery, Public Works Department, and even to the Polytechnic School. Again, the notices have ment, and even to the roylectime school. Again, the notices have to be published in every caze of the vilayet in which the mine is situated, so that for a mine at the Dardanelles it is necessary to put up notices in every island of the Archipelago as far as Rhodes, and to wait until each of these islands have reported that there is no opposition—a process which often occupies over a year instead of the two months prescribed by law.

It would appear that the concessions themselves are of little value

when obtained, owing to the conditions attached to them, but the granting is also sufficiently objectionable; it must be proved that the mine can be profitably worked, that its working will not be prejudicial to any factories or other mines in the neighbourhood, that the best method of working the mine has been determined, and that the applicant commands sufficient means and skill. Here the Government offers guarantees which it cannot fulfil, and undertakes

responsibilities which are altogether unnecessary. The deputation pointed out that it is urgent that the Administration of Mines should be made to understand that in granting a concession it accords a privilege confined, indeed, within certain limits, but which entails than the concessionary the objection to rich the concession. privilege confined, indeed, within certain limits, but which entails upon the concessionary the obligation to risk a large capital in an undertaking of the most uncertain kind for him, though offering direct and immediate profit to the country. The suggestions made are that reforms should be introduced giving security of title, promptitude in obtaining them, suppression of needless formalities and guarantees, the creation of a technical and practical council of mines, the recognition of the principle of indemnity for mining claims based on the value of the mine, and the renunciation by the Government of all detrimental competition with concessionaries. There can be no doubt that if these suggestions were adopted the encouragement for mining in Turkey would be much increased.

MINING IN FRANCE.

A great deal of interesting information about mining in France is contained in M. Caillaux's "Mémoires sur les Mines métalliques de France, 1872," and "Tableau général et Description des Mines métalliques et des Combustibles minéraux de la France, 1875." The Gauls, Cæsar tells us, were clever miners; the mediæval French succadins, the mediaeval reaches the mediaeval reaches acceeded very well in mining; but, as soon as France adopted the system of over-government, from which in all her revolutions she has never been able to free herself, the mines began to languish. The Grand Master and Administrative Council (both dated from Henry II.'s reign) were too much for them. Thus mining had flourished in the Vosges till the mining districts were annexed by Louis XIV.; it had flourished in Franche-Comté under the Spaniards, but gradually died out when Franche-Comté became French. In the department of the Gard one can still trace Jacques Cœur's workings; and the mines of the Limousin and Auvergne, and above all of Rouergne (the department of Aveyron), paid well till the the department of the Gard one can still trace Jacques Cœur's workings; and the mines of the Limousin and Auvergne, and above all of Rouergne (the department of Aveyron), paid well till the religious wars, at the close of which all France came under the yoke of absolutism. The French mines of copper, tin, calamine, &c., are by no means worked out, says M. Caillaux; vigour and improvements in working are alone needed to make them thrive as of old. The Breton tin mines, for instance (to say nothing of those in Limousin, so famous in Celtic times), would, he thinks, succeed as well as those of Cornwall if proper methods of stamping and washing were employed. Unless they were to succeed better than most of the Cornish mines are doing just now, it would hardly be worth while to introduce the circular washing tables and other appliances which the Cornish managers brought in not many years ago from Russia. Tin will never pay again, unless either the Australian supply ceases, or a great deal of the work now done by the miner can be done by machinery. Cornwall and Brittany are inhabited by much the same race; that the former has so greatly distanced the latter in mining is because in Cornwall private enterprise has been free, in Brittany it has been wofully trammelled; and, again, as a consequence of this freedom, English capital has always been pouring into Cornwall, while till the other day Brittany was cut off from the rest of France.

We do not think, with all deference to M. Caillaux's special knowledge, that the old French duchy will ever be able to make up its leeway. But, if a great deal of French mining is almost dead, ironworking is more active than ever, though, owing partly to the subdivision of property, which destroyed the connection between the

leway. But, if a great deal of French mining is almost dead, iron-working is more active than ever, though, owing partly to the subdivision of property, which destroyed the connection between the signorial forests and the blast-furnaces, and partly to the use of coal for smelting, the mode of production is completely changed. The little smelting-houses which abounded wherever rich ore was to be found have been to a great extent killed out as completely as in the old "blast-houses" on the Cornish moors; while great works like those at Creuzot have vastly increased. These are mostly situated on coal fields, and other ores, if still worked, are taken to them, just as the Northamptonshire iron-earth is taken to the Black Country. In 1835 all the French ironworks employed 22 600 horse power; in 1860 they employed 76,300, of which steam produced nearly 48,000. M. Caillaux notes with much pleasure a reaction which has quite lately set in in Savoy and other well-wooded districts in favour of small works for making, not iron, but steel. He remarks that while in the last forty years the production of cast and wrought iron in France has increased fivefold, that of steel has increased twentyfold.

The yield of coal from French mines is 17½ millions of tons—

and wrought iron in France has increased fivefold, that of steel has increased twentyfold.

The yield of coal from French mines is 17½ millions of tons—twenty times what it was 60 years ago. It has doubled in 12½ years; while that of England, says M. Caillaux, takes 15 years, and that of Belgium 20 years to double. In this way the proportion of imported coal has been reduced from two-fifths to a third. A greater output, combined with fresh "concessions," would (our author thinks) permanently lessen even this reduced proportion. The French coal fields are larger than many of us think; that which belongs to the Belgian field has been traced, under more recent formations, all the way from Lilliers in the Pas de Calais to Conde in Calvados. M. Caillaux thinks that very generally the superincumbent strata are not too thick to be pierced to good purpose. No mine in this field exceeds 300 metres; this depth might, he says, be doubled with advantage. With their coal and iron, then, the French may fairly be satisfied; they had the steam-hammer at Creuzot before we in England had begun to use it, and M. Schneider, we know, built a good many locomotives for English railways. The other mines seem, as we said, choked with officialism. M. Caillaux hints that it might be as well to try a change, and to let the ownership of the metalliferous mines go along with that of the soil, reserving the present system for the working of coal mines. He thinks that France has a great future before her as a mining country, if only she can set to work untrammelled. But surely that is of all things the one which it is hopeless to expect.

ECHOES FROM THE MINING MARKET.

ECHOES FROM THE MINING MARKET.

The closing days of the year have not been marked by any particular signs of weakness in mining shares. Prices, on the contrary, exhibit firmness, so that the markets would at once respond to any favourable influences that might arise. But little can be said, however, in favour of tin. This metal and iron are the two least encouraging of all the various departments. Lead, on the other hand, is good, and mines of this metal may be said to be most in favour; those possessing reasonable features of encouragement, will commence the new year under good auspices, as there his been for the last three months a decided tendency apparent on the part of investors to pay particular attention to lead—a tendency which has steadily increased as the closing months have passed away, and which we think only requires the renewed activity of a new year to increase in a much greater degree. The shares most susceptible of a substantial advance are Roman Gravels, Tankerville, West Tankerville, Pennerley, and Plynlimmon. The last is likely in particular to do well now that it possesses ateam-power, as the influences of the weather, which at times have cussed entire cessation of work, have been brought to a minimum, whilst, as far as the development of the property is concerned, it is cheering to note that the lode in the bottom is of a kindly and improving character. We shall watch the progress of this mine with much interest, as we believe it has the elements of success within it. Another mine which would undoubtedly do well if the efforts of the liquidator to procure fresh capital could only be successful is Willoughly. Starting under good auspices some four or five years ago it capital was eventually found insufficient to carry it on to a successful issue, and the shareholders in consequence of the difficulty found in raising more money) were compelled to suffer their property to drift into voluntary liquidation. Since then the liquidator has not only made the mine pay its way, but has actually reali

panies in which those who originally promoted it staked their thousands in hard cash upon its succe-so refailure.

The last days of 1875 have witnessed a radical change in Grenville Mine. The recent alteration in the secretaryship is fresh in recollection, but on Thursday this alteration was added to by the dismissal of the ag nts and the appoinment of a captain Hodge, as agent-in-chief. A call of 18s, per share was also made—rather a heavy amount. We think, however, that it is always better in a cost book mine to face liability at once, and therefore but little can really be said against this call, although doubtless it will press hardly upon some of the old shareholders. The meeting was not a very harmonious one, of course. Those hottle to the late secretary have so strengthened their hands by purchases of shares that their ability to carry their views was a foregone conclusion, and, as the late secretary has parted

with the greater part of his interest in the mine, there will, we presume, be no further opposition offered to the change of offices.

with the greater part of his interest in the mine, there will, we presume, be no further opposition offered to the change of offices.

The difficulties of the Crenver and Abraham Mines, it appears, are not over yet. The liquidators have announced that the entire property has been offered for sale as a going concern without the reserve price (fixed to cover liabilities) being reached If the machinery has to be sold piecemeal it will not realise anything like the amount of the mortgage; so, as the liquidators tersely remarks—"It is obvious that the shareholders' capital is entirely lost." Capt. Tregay has made a special report upon the propesty. It is considered so encouraging that the guarantors of the mortgage to Mesers. Harvey have offered to find a large part of the capital required to purchase the property, and also to settle with Mesers. Harvey if the balance which is absolutely necessary for the development can be obtained elsewhere. The guarantors have of late found the means to carry on the mine, hoping that the output and price would continue to improve, but although the quantity of ore has increased, the costs cannot be entirely met and profits made without further development. Negociations are now going on by which it is hoped the balance required will be raised, and the property will then be in the hands of a few persons with such a reduced capital that "a small profit will give handsome dividends." The property will now be sold for the best price that can be got for it, and the guarantors state that they are willing to allow any of the old shareholders who may wish to do so to join in the purchase. Those who have already subscribed, in answer to the liquidators' appeal last June, are requested to signify their assent to the application of their money to the proposed arrangement, and those who have not subscribed are now informed that this is the last opportunity they will have of doing so. Last week 395 tons of copper ore were sampled. One shaft is yielding 2% tons per fathom, and two ends 4½ tons.

Meetings of Public Companies.

LLANRWST LEAD MINING COMPANY.

The second annual meeting of shareholders was held at the offices

The second annual meeting of shareholders was held at the offices of the company, Gracechurch-street, on Thursday.

After the notice convening the meeting was read by Mr. Yeates (the secretary), he also read the directors' report as follows:—

The directors have much pleasure in submitting the accompunying report of Capt. Knapp, showing the progress made in the development of your property during the past 12 months. It will be seen therefrom that the mine has considerably improved at all points of operation, while the prospects of further important discoveries being made as development progresses and depth is attained on the several lodes (already proved to be so prolific in yield of ore at the present shallow depth) is, in the opinion of your directors, beyond doubt. The estimated value of the reserves of ore laid open below and raised to surface is 27,5004., and when it is borne in mind that the company's actual outlay in developing the mine with such satisfactory results has been under 40004., you cannot have any doubt that the money has been economically and profitably expended. It is to be regretted that progress has been retarded for want of the necessary machinery to prepare the ore for market, and your directors feel once more constrained to ask you, one and all, to come forward and aid them with the means for bringing about the payment of dividends. You possess a valuable property, with large reserves of ore waiting only for the requisite machinery to render it marketable, and if each shareholder were to take a provata number of the company's unallotted shares ample means would be provided to meet these requirements. Mr. Benetofski having caused to be a member of the board, the directors, in conformity with clause 79 of the Articles of Association, appointed Major de Winton to a seat at the board, subject to your confirmation, and in accordance with clause 75 of the said Articles of Association, Captain Gilbert and Mr. B. C. Helden retire by rotation, offering themselves for re-election.

Captain Rober

challenge them foot by foot throughout the drivages, backs, and bottoms, as regarded the statements in his report of the value of the discoveries made; and as soon as the appliances were provided to make the ore marketable the mine would be in a position, from its present development, to give a profit of 5000, per month, or 6000, per annum; and, as development went on, it would be considerably increased. The bottom level is the richest part of the mine, and he considerably increased. The bottom level is the richest part of the mine, and he considerably increased. The bottom level is the richest part of the mine, and he considerable that we had one of the most valuable lead properties in the Principality.—Mr. Expean stated that, whilst a number of lead mines in Wales, holding their meetings in Gotober or November, have only brought their cost up to April, leaving several behind, costs not paid, Llauwrst stood pre-eminent in that respect, inasmuch as the entire working cost, merchants' bills, &c., were brought up to the end of November.

A good number of the sharshel lers were present, and all were perfectly satisfied with the present position and prospects of the company. After a vote of thanks's Cap'. Knapp and the time dors, the shareholder dispersed, from one of the most parant and satisfactory mining meetings that has taken place for a long time.

[For remainder of Meetings see to-day's Supplement.]

| For remainder of Meetings see to-day's Supplement.]

INCOMBUSTIBLE WOOD .- The invention of Mr. A. F. RICHARD, of Dix, Frunce, relates to the preservation and incombustibility of wood by the iid of crystallised chloride of sodium in solution in water at between 6° and 24° by Beaumé's acrometer, and of a solution of chloride of sodium and alum at between 1° and 27°, either mixed in variable proportions or employed separately.

WRENCHES OR SPANNERS. The invention of Mr. L. J. BAUDIN Paris, relates to an Improved construction and arrangement of extensible were spanner whereby great strength and solidity in the instrument, and never pidity in effecting the beligistment of the jaws, are obtained; and is consistentially in forming on the arm or body of the wreach or spanner an initiate screen thread—that is to say, a thread having a sectes of breaks or in the section of the s essentially in forming on the arm or berry or many a series of break mittent screw thread—that is to say, a thread having a series of break terruption, and in providing the moveable jaw with a nut tapped with sponding intermittent or interrupted screw-thread, so arranged as to admin to being turned in one direction in order to disengage the screw-threa enable the moveable jaw to be adjusted to the required distance by alidin the arm or body of the wrench or spanner, or by the arm or body of the

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BRIGHMOS CONSOLIDATED—Telegram: Week's run, \$35,000.

Dec. 8. I beg to hand you my weekly report of the mine, smelting, and we finely smelter. The shin gar of wo down \$28 ft., and all the distance in ore of good quality. The stope in the back of the 600 (the new discovery) is opening out well, it was not to be a state of the finely smelter of the control of the co

their interests.

MALPASO.—Outhbert Druitt, Nov. 18: The working of the mine is proceeding tolerably satisfactorily. The head of water continues very good—rather too good, in fact, as the old flumes broke a day or two ago. On the whole, though, we are not losing so much time now, but it carries continual anxiety and great exertions to keep the sluice from tumbling to pieces. From the appearance of the head of the sluice I think we may anticipate that this run will be as good a one as the last. I hope to run on till this time next month, as by doing so we may avoid unnecessary loss of time.

LIVAPER.—Doe. 18: Page Angles Wine: In the 100, cast of Warne's engine.

I hope to run on till this time next month, as by doing so we may avoid unnecessary loss of time.

LINARES.—Dec. 15: Pozo Ancho Mine: In the 100, east of Warme's engine-shaft, the lode is very open, yielding 1 ton of lead ore per fathom. The sume level west is in a large, strong lode, containing a few spots of ore. In the 85, west of Croby's shaft, the lode is hard and poor. The 75 and 65, west of Peill's engine-shaft, are unproductive. In the 85, west of this shaft, there is a promising lode, worth 1½ ton per fathom. The lode in the 90, west of San Francisco shaft, has fallen off a little, and produces ½ ton per fathom. The same level cast is in a small lode, containing a little ore. The 75, east of Peill's, is passing through a piece of unproductive ground. The 65, east of the same shaft, is in a compact and regular lode, consisting of quartz, and worth ½ ton of lead per fathom. Good progress is being made in Peill's engine-shaft, below the 93, the lode is improving, now yielding 1 ton per fm. No. 204 winze helow the 85, the lode is improving, now yielding 1 ton per fm. No. 204 winze, below the 85, the lode is improving, now yielding 1 ton per fm. No. 204 winze, below the 85, the lode is improving, now worth ½ ton per fathom.—Los Quinientos Mine: The lode in the 90, west of Taylor's engine-shaft, is hurd and poor. In the 80, west of this shaft, there is a strong, open lode, but at present unproductive. The 45, east and west of cross cut, south of Cax's shaft, is in favourable ground for driving, and the lode yields stones of lead ore. In the 80, east of Taylor's there is a good stone of lead in the upper part of the end. The 65 west of 8an Carlos shaft, is in it of ground, and poor. The 80, west of this shaft, is not atong, open lode, containing a little lead ore. The 86, west of 8an Carlos shaft, is in it of ground, and poor. The 80, west of this shaft, is not or the shaft, is not the shaft, is not or the shaft, is not or the shaft, is not the shaft, is in favourable ground for driving.

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COAL MINES REGULATION ACT, 1872.

EXAMINATION FOR MANAGERS' CERTIFICATES OF COMPETENCY.

DISTRICT UNDER THE CHARGE OF JAMES WILLIS, Esq., H.M. INSPECTOR OF MINES.

M.M. INSPECTOR OF MINES.

NOTICE IS HEREBY GIVEN, that an EXAMINATION for MANAGERS' CERTIFICATES OF COMPETENCY, under the above named Act, will be HELD on the 17th and 18th days of January, 1876, and CANDIDATES INTENDING TO PRESENT THEMSELVES AT SUCH EXAMINATION must, on or before the 10th day of January, 1876, notify such intention to the Secretary of the Board of the above-mentioned district, from whom all information as to particulars can be obtained.

By order of the Board,
GEO. SOUTHERN, Secretary,
Carlton House, Low Fell, near Gateshead.

N.B.—Persons who do not reside within the district are equally eligible for examination with those who do.

BRYDON AND DAVIDSON, WNGINBERS,

WHITEHAVEN.

IRON AND BRASS FOUNDERS.
MAKERS of all kinds of BOILERS; PUMPING, WINDING, and HAULING
ENGINES, and MINING MACHINERY generally. AIR COMPRESSORS, CRANES, CRAB WINCHES, MORTAR MILLS, PUMP PIPES, &c.

CASTINGS OF ALL KINDS.

RED HEMATITE IRON ORE OF HIGH PERCENTAGE.—
A SEFT, containing large quantities of this, TO BE DISPOSED OF, reasonable. No steam-power required, and within a quarter of a mile of railway. Address, "Yerax," Post Office, St. Austell, Cornwall.

SALES OF COPPER ORES.

COPPER ORES SOLD AT THE CORNWALL TICKETINGS FOR THE QUARTER ENDED JUNE, 1875.
Tons. Mines.

South Caradon	***	***			***		1250	***	£	9,971	15	0	
West Tolgus			***	***			978	***	***	7.049	19	6	
Crenver and Abral				***	***		1197	***		4,620	18	6	
Devon Great Cons	ols		***				1128	***		4,595	15	6	
Glasgow Caradon	***		***	***			750	***	***	3,881	13	0	
Marke Valley	***	***					975		100	3,828	0	6	
Hingston Down	0.0		000			***	780		110	2,515	3	6	
East Caradon					***		400	***		2,273	12	6	
Gunnislake,					***		250	***	122	1,699	2	6	
Wheal Basset							225		***	1,598	6	6	
South Crofty				***		***	422		222	1,451	11	6	
Phœnix	***				***		190		***	1,421	15	0	
East Pool	200	***	***	***			474			1,411	18	6	
Brookwood				***			262	***		1,367	3	0	
Botallack	***	***				***	149			1,291	17	0	
New Pembroke			000	000			105		***	1,008	0	0	
Bedford United				0.00			205			981	1	0	
West Maria and I	orte	scu	e				190		111	945	15	0	
West Seton				***			150			778	14	6	
Gawton					200		206			762	13	0	
West Basset							128			742	5	0	
Prince of Wales			1.0.0	0.00			153		***	681	9	0	
St. Aubyn United					001		112			670	3	6	
Wheal Friendship		***				4.00	60		***	448	14	0	
Wheal Emma	***						100		***	395	15	0	
Cathedral		400	***		- 0.0		60			369	19	0	
Carn Brea							66			319	19	0	
East Grenville						4.00	93		***	300	8	6	
Wheal Russell			000			0.0	100	***	***	297	1	0	
West Poldice					000	* 6 0	27		***	269	7	6	
Levant				100			23	400		244	11	0	
South Dolcoath	***		0.00			***	60			247	10	0	
Penstruthal	0 = 0	0 0 0				000	14	400		169	15	0	
South Carn Bres	+ 0.0	0.00		4.0 0			33		400	160	17	6	
Champion's Ore	400				***	***	27		4.0.0	142	8	6	
South Roskear		***		0.00	000	0.00	20	***		120	13	6	
South Frances	***	***	000	0.00	000	000	30			120	0	0	
Bottle Hil			0110		***		14		400	119	0	0	
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Vivian and Sor P. Grenfell an	d Sons	***	•••	•••	***	***	1,547	**	***	7,642	18 3 2 3	
Nevill, Druce, Williams, Fost	and Co	i Co.	***	***	***	***	1,374 1,603	***	***	8,397	18 0 17 3	
Mason and Eli Copper Miners Charles Lambe	Co.				***	***	1,962	***	***	8,242 9,698 4,587	4 6 10 9 12 8	
Newton, Keate Sweetland, Tu	es, and	Co.		***	***	***	1,181 100 1,373	***	***	989	1 6	
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Cathedral Gawton			***	***	***	***	120 144	***	***		0 6	
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Original Correspondence.

PURE CHARCOAL STEEL DIRECT FROM THE ORE.

That the steel manufacturers of Sheffield are not at all times able to account for the irregularities in the quality of the steel which they produce by apparently identical manipulation is well known, yet that greater regularity would be secured by attempting to make charcoal steel direct from the ore is very generally doubted by practical men; and it is not improbable that the success which Mr. HENRY LARKIN claims for his process as carried on at the works of the Red Moss Metal Company is due to the fact of its being an indirect process, and very closely allied to that by which the most experienced of the Sheffield steel makers have produced the best qualities of steel which have been brought into the market. For the production of the finest steel it was the practice of the Sheffield makers to obtain the purest brands of Swedish iron, and to use none but the purest charcoal in the cementation process by which it was to be converted into steel. In his paper, recently read before the Society of Arts, Mr. Larkin states that some three or four years since he sought to remove the anomalies connected with the Sheffield process, for he entertained the idea that the production of steel must necessarily be an uncertain thing so long as the ordinary process of doing and undoing—of smelting, puddling, converting, and sorting by rule of thumb was continued. He says that whilst occupied with these speculations he was so fortunate as to obtain a few tons of the well known magnetic iron-sand to experiment with, and his thoughts were—"Here is a perfectly uniform material, free from any impurity that would be injurious to the steel which might he to account for the irregularities in the quality of the steel which

neigh process, for the entertained its idea that the production's seed must necessarily be an uncertain thing so long as the ordinary processing by rate of thumb was continued. He says that whilst occupied with these speculations he was so fortunate as to obtain a few tons of the well known magnetic iron-sand to experiment with, and his thoughts were—"Here is a perfectly uniform material, free from any impurity that would be injurious to the steel which might be made from it. If I can succeed in converting this material into steel by the agency of pure carbon, and by strictly uniform treatment. I ought to succeed in producing a pure and uniform steel." His notion was to thoroughly mingle the producted on with powdered charcol in accurately regulated proportions, and then to provent the reduced metal from cobering together.

Now, before an argument of this kind can be accepted it must be shown that the association of pure iron and carbon in definite proportions all that is necessary to produce steel, and also that the melting of iron and charcoal, so as to obtain them as a true chemical composition such as steel unquestionably is, can be practically accomplished. It appears that Mr. Larkin's process has been worked on a small but regular manufacturing scale by the Red Moss Mrtat Company at Warrington for some eight or this manufacturing seale by the Red Moss Mrtat Company at Warrington for some eight or this months past, and pure the state of the steel of the sealed of the sealing steel, but the difficulty has always been to secure uniformity, many of the bundles upon which the greatest car, has been bestowed giving the least satisfactory results. From Mr. Larkin's statement that at Red Moss they have a subject to comparative inexperience in the melting, it would seem that equal uncertainty attends the direct and the cementrainty process of converting the sead of converting the sead of the process is unaffected by the value of the resulting furnace on account of their liability to choke it. For this reason there tion of manganise or any other alloy that may be found advan-

As compared with the old cementation process of producing steel the leading question would appear to be whether it is preferable to use the iron in the form of bars or of powder, and this was supposed to have been decided in favour of bars 10 years since, when Chenot's process was attracting so much attention. That the mere substitution of a horizontal for a vertical retort produces the difference be-tween failure and success will have to be proved before practical steel makers will accept the assertion as a fact, more especially as would naturally be expected. But as a convenient method of converting natural iron-sand, and even certain classes of ore, such as that of Marbella, there is no doubt that Mr. Larkin's method ivaluable, and that being so it is unnecessary to raise the question of origin-lity, since those who regard Chenot's and Larkin's inventions a identical have only to use the former instead of the latter. In

furnaces 20 years since, and that Chenot's process was tried at Sheffield 10 years ago. The cost of producing steel by Mr. Larkin's method was asked for by Mr. Hale, but no reply was elicited; and upon the question of the desirability of securing a compound of iron and carbon only to ensure good tool steel Mr. Riley remarked that Mushet's steel was never hardened, but was thrown down and allowed to cool. Some of his steel contained 1½ par cent. of silicon, and it made some of the best jumpers ever seen in South Wales; it also made good knives and razors. Mr. Larkin in replying to the criticism remarked that he had by no means attained the degree of perfection in his process which he believed it was capable of, but he had great pleasure in describing its present position, and claimed for it especially the means of securing accuracy of operation in the production of steel.

Registration of New Companies.

The following joint-stock companies have been duly registered:-The following joint-stock companies have been duly registered:—
GWERNOR SLATE QUARRIES COMPANY (Limited).—Capital 20 00 ½, in
10/. shares. To acquire the lease of a quarry in the parish of Llanellyfin, Carmar
then, for the residue of a term of 31 years, granted by Robert N. Jones and Hugh
Thomas to Robert Naylor. The subscribers are—Thomas Coates. Ferguslie, near
Paisley, thread manufacturer, 450; W. A. Coates, Ferguslie, near Paisley, engineer,
50; J. Coates, Paisley, spinster, 50; H. J. McCulloch, Moat House, Wood Green,
nining engineer, 450; J. R. McCulloch, Moat House, Wood Green, 10; John Cory,
Windoe Hall, near Cardiff, coal mechant, 50; R. Cory, jun., Cardiff, colliery proprietor, 50. Messrs. H. J. McCulloch, Thomas Coates, John Cory, R. Cory, jun.,
will be the first directors.

Vindoe Hall, near Carduit, coal merchant, 50; R. Cory, jun., Caroni, contex, prorietor, 50. Messrs. H. J. M.Scalloch, Thomas Coates, John Cory, R. Cory, jun., cill be the first directors.

RYHOPE COAL COMPANY (Limited).—Capital 652,800/., in shares of 1300/. otake over the property of the Ryhope Coal Company, the price to be paid being 02,400/. The subscribers are—John Taylor, Earesdon, Northumberland, coal wner, 20; W. Nicholson, Sunderland, coalowner, 20; J. C. Lamb, Durham, coal wner, 20; C. U. Lawes, Pridhoe Castle, Northumberland, coalowner, 16; G. D. A. Clarke, Beer ord Hall, Northumberland, coalowner, 80; J. Nicholson, J. C. Lumb, and Thoslaylor, Chipchase Castle, Northumberland, coalowner, 18; G. D. A. Clarke, Beer ord Hall, Northumberland, coalowner, 80. The directors are Messrs. Hugh Taylor, Y. D. A. Clarke, John Taylor, W. Dicholson, J. Nicholson, J. C. Lumb, and Thoslaylor, the qualification being the holding of shares to the value of \$200/. AMAZON ROYAL MALL STEAMSHIP COMPANY (Limited). — Capital 00,000/., in 10/. shares. To acquire the business of the Liverpool and Amazon koyal Mail Steamship Company (Limited). The subscribers (who take one share uch) are—J. Smith, Uxbridge; J. Landerman, 37, Clarges-street, Piccadilly: A. Josefall Chambers; J. N. Arowsin, 17, Defoe road, Stoke Newington; and G. B. diekle, Duches-sstreet, Portland place.

PREEHOLD RESIDENTIALTRUST COMPANY (Limited). — Capital 100,000/., in 10/. shares. To carry on business as a land and building company, &c. The subcribers are—Thomas Lane, Eastbourne, 25: A. J. Briant, The Lurches, Rosheriners are—Thomas Lane, Eastbourne, 25: A. J. Briant, The Lurches, Rosheriners are—Thomas Lane, Eastbourne, 25: A. J. Briant, The Lurches, Rosheriners are—Thomas Lane, Eastbourne, 25: A. Suthampton-street, Strand, 25: and 3. R. Higham, Rochester, 5.

Rapital 30,0024, in 104, shares. To acquire the business of a chain cable manuturer, lately carried on by Caleb Bloomer, of 12, George-yard, Lombard street, West Bromwich. The subscribers (who take one share each) are—W. C. Jar. The Priory, Tondridge; A. Bloomer, 19, Lawrence Pountney-lane; H. Bloomer, Lawrence Pountney-lane; H. Bloomer, and Research and

10. Lawrence Pountney-lane:
Rendleshor road, Clapton: Thomas Smith, West Bromwich; and to the Rendleshor road, Clapton: Thomas Smith, West Bromwich; and to the Rendleshor road, Clapton: Thomas Smith, the proposed locality of which is not given. The subscribers (who take one share each) are—W. H. Pyne, Birkheck road, Horney; A. G. Stokes, Belsize road, N. W.; R. Gibb, Eat Brixton: D. Roberts, II, Bedford-road, New Cross; S. Boume, Queen's place; G. Schofield, South Lambeth road; and J. Hadinott, De Beurovir-road, N.

LIVERPOOL AND CONTINENTAL STEAMSHIP COMPANY (Limited).—Capital 100,000/., in 10. shares. To carry on business as steamship owners. The Capital 100,000/., in 10. shares. To carry on business as steamship owners. The Capital 100,000/., in 10. shares. To carry on business as the mostly park, Fox.

Capital 100,000f., in 10f. shares. To carry on business as steamstip owners. The subscriber are—H. Marqueen, 4, Oxford-terrace, Upper Holloway, 159; R. J. Francis, 52, South Castle-street, Liverpool, 50; G. de Parrelle, Wesley Park, Foxteth Park, Liverpool, 20; Et. Albarer, 33, Greenfield-road, Liverpool, 10; A. Laurens, Newton, Cheshire; A. Erant, 52, South Castle-street, Liverpool, 50; G. de Parrelle, Wesley Park, Foxteth Park, Liverpool, 20; Et. Albarer, 33, Greenfield-road, Liverpool, 10; A. Laurens, Newton, Cheshire; A. Erant, 52, South Castle-street, Liverpool; J. Rattan France, 10; J. Deslande, 8t. Helens, Jersey, 10.

TRENT VALLEY BREWERY COMPANY (Limited).—Capital 100,0002., in 25t. shares. To carry on business as brewers. The subscribers are—W. Elkington, Rock House, Lichfield, 50; F. Symonds, Lichfield, 50; T. A. Negus, Lynn, near Walsall, 50; W. Field, Belmont, Shrewsbury, 50; Joseph Trevor, Lichfield, 4. Perks, Gorton Lodge, Rugeley; W. A. Riddall, Shenstone Lodge, near Lichfield, 4. PENNYWELL COLULIERIES COMPANY (Limited).—Capital 10,000t, in 5t. Shares. To acquire the Pennywell Lanc Colliery, at Bristol. The subscribers are—Thomas Brown, Ashley-road, Bristol, colliers proprietor: T. Brown, Froon Villas, A-hley-road, no occupation; G. Grevila, 3, Berkel-y square, solicitor; W. Harris, L. Cumberland-street, pristol, no occupation; G. W. Harris, Bristol, Colliery proprietor: Jane House, Berkel-y Villa, Bristol, widow; W. Whitaker, T. Seymour Villa, Bristol, The directors are Messrs. T. Brown, G. Grevile, G. W. Harris, the qualification is ten shares.

CAPDIGAM MERCANTILE COMPANY (Limited).—Capital 20,0004, in 104.

Title, Bristol. And American the qualification is ten shares.

CARDIGAN MERCANTILE COMPANY (Limited).—Capital 20,000L, in 10L

To take over the business of the firm of Mr. D. Griffith Davis and Mr. T.

haves, of case were the outsides of the firm of Mr. D. Griffith Davis and Mr. T. Avris, of Cardigan, timber, lath, rope dealers, &c.

JAMES EASTWOOD AND CO. (Limited), -Capital 15,600 , in 5t. shares. To equire the Victoria Ironowers at Preston.

SAUNDERSFOOT AND TENBY COLLIERIES COMPANY (Limited),
sauxista 50 note, in 500 , hours, To advent an access company of the control o

the acquisition of eatheries near Saunferstoot, Pembroke. The purchuse money is 18,000. The subscribers (who take one share each) are—Wm Frankish, Limber (Elechy, Lincoinshire, farmer; E. Dawsen, Woodton Ulceby, out of business; W. Wood, Ha'crough Ulceby, farmer; H. Frunkish, Normanity le Wold, farmer; J. Stephenson, Barnham, Barton in Hundreds, farmer; T. Ghinde, Fourhope, iron master; G. Blizzard, 28, Moorgate-street, colliery proprietor. The subscribers are or the most part directors, the qualification being 10 shares.

ARGENTIERE MINERAL COMPANY (Limited)—Capital 35,00 2, in 102, shares. To acquire the whole of the mining concession granted by the late Emperor of the French to MM Suquet, Son, and Co., for mines of silver lead in the Commune of Argentiere, Briancon, department of the Hautes Alps, and the acquisition of the rights and interests of Mesers. Charles G. Grey, J. M. Paull, J. P. Walton, and J. L. Bolden. The subscribers (who take one share each) are —P. H. Serutchley, Lieut. Col., Woolwich Arsenal; W. Fowler, Whittington Hall, Chesteried, colliery proprietor; J. M. Paull, M.E., Z. Landsdowneplace, Plymouth; C. G. Grey, S. Parliament-street, surveyor and land agent; J. P. Walton, Hexham, mine warr; J. L. Bolden, Camborne, Cornwall, barrister-at-law; F. J. Bolton, 19, Foxwenor Cardens, major. The directors' qualification is 50 shares.

SWEDISH ASSOCIATION (Limited)—Capital 715,0004., In 104. shares. To capitae a certain portion of the undertakings of an association known as the swedish Association. The subscribers (who take one share each) are—C. Wegulin, 175, onld for advantage in the first of the speciment of the undertakings of an association known as the swedish Association. The subscribers (who take one share each) are—C. Wegulin, 175, Old Broad-street; R. Bischoff-theim, 27, Rue de Gramond, Paris; H. Bischoff-theim, Thoughout on street. Company of the subscribers (who take one share each) are—C. Wegulin, 175, Old Road-street; George Wythes, Beckley Park; and W. J. Cutbill, 103, Cannon-street.

reet.

ASHMORE PARK COLLIERY COMPANY (Limited).—Capital 30,000/L, in M. shares. To acquire the interest of Henry Underhill, of Wolverhampton, and thers, in property near Ashmore Park, Wednesfield, Stafford. The subscribers re—Henry Underhill, The Mount Grailey, Wolverhampton, solicitor, 990; J. E. Inderhill, Wolverhampton, solicitor, 500, Richard Woodcock, Wolverhampton, and agent, 750; J. Hill, Ashmore Lodge, Wednesfield, 385; Arthur Underhill, Middle Temple Lane, barrister-at law, 10; E. Hodson, Wednesfield, contractor, b. The sum of 12,000/. is to be paid for the property.

From Mr. M. W. Bawden (Liskeard, Cornwall).—In taking my annual review of the mining and metal market during the past year, I find the tin trade has not presented any continuation of favourable feature, and it has been characterised by a dull monotony thrown over all other metals, although at the opening of the year it bil fair when a rise of 3t per ton was announced by the smelters, which at the time appeared to give some impetus to mining, with bucyantexpectations of a permanency, but the advance was only temporary, and soon subsided into the present long-continued depression, with but little fluctuation, and without much probability of obtaining higher prices unless a greater demand and increased consumption should ensue; the recent advices from Australia have fully confirmed the large quantities of tin in reserve for exportation from that quarter in excess of last year. Lead has fully maintained its position, with the prospect of better prices being realised in the new year; the returns of this metal show a considerable falling off in the two counties, whilst we have only a limited number of mines now at work, and those only returning small quantities of lead ores. Copper has been firm in price, and the standard for copper ores has improved during the year, with a little less percentage; it is also satisfactory to report an increased quantity of ores sold in ad-From Mr. M. W. BAWDEN (Liskeard, Cornwall) .- In taking my It is also satisfactory to report an increased quantity of ores some inhis preceding one, which has not been evinced for several years an previously retrograding. The new year also augurs well for fursules of copper ores from Cornwall and Devon, and investments of
the state of the proper of the proper mines have been more procreased sales of copper ores from Cornwall and Devon, and investments lately feeted in good dividend and progressive copper mines have been more profitable an in tin stock. I find from my usual synopsis of the past year that the rems of copper ores sold from Cornwall and Devon at the Ticketings shows an issue of 2010 tons on the previous year. In 1874 the total quantity of ores sold as 50,252 tons, which the late year gives a return of 52,322 tons, which has been lid at an advanced average standard of 94. Us. It is average standard, 194. 2s.; price per ton, 14s. 64.; fine copper, 3521 tons; the total amount of ore money, 223,513. 1s. 64. linkt the past year gives an average of 7 per cent.; average standard, 114.3. 15s.; ice per ton, 54. 4s. 64.; fine copper, 3500 tons; the total amount of ore money, 6,3274, 18s. Showing an improved average price of 10s. per ton on the copper es sold from the two counties during the year over that of 1874.

HOLLOWAY'S PILLS AND OINFMENT.—These remedies have maintain her position in the world's estimation from the fact that their preparation a nanufacture have been the result of much anxious thought an I extreme care, the discussion which followed the reading of the latter. In the blood, and are thus brought have contact with diseased products. The blood, and are thus brought have contact with diseased products. The blood, and are thus brought have contact with diseased products. The blood, and are thus brought have contact with diseased products. The blood, and are thus brought have contact with diseased products. The blood, and are thus brought have contact with diseased products. The blood, and are thus brought have contact with diseased products. The blood, and are thus brought have contact with diseased products. The blood, and are thus brought have contact with diseased products. The blood, and are thus brought have contact with diseased products. The blood, and are thus brought have contact with diseased products. The blood, and are thus brought have contact with diseased products. The blood, and are thus brought have contact with diseased products. The blood, and are thus brought have contact with diseased products. The blood, and are thus brought have contact with diseased products. The blood, and are thus brought have contact with diseased products. The blood, and are thus brought have compact with blood.

Mining Correspondence.

BRITISH MINES.

ABERDAUNANT.—S. Toy, Dec. 22: No.1 addit level, driving east, has improved during the past week, and is now worth 5. per fathom for lead. The north and productive part of the lode is very hard, but its general character and appearance are encouraging, and I am hoping we shall soon have a further improvement. The stope in the roof of this level is not quite so good as it was last week; it is now worth 8. per fathom.

productive part of the lode is very hard, but its general character and appearance are encouraging, and I am hoping we shall soon have a further improvement. The stope in the roof of this level is not quite so good as it was last week; it is now worth 8. per fathom.

BEDFORD UNITED.—W. Phillips, Dec. 30: The lodes in the different levels are not sufficiently taken down to report their value, as anticipated last week. During the last month operations also have been conducted with a view to lay open for stoping to advantage the fine lode in the back of the 115 fm. level west. The stopes still maintain their value, and I hope to be in a position next week to give a full report, and have pleasure in giving this last report for the year by adding that the general aspect of the mine is very encouraging.

BOG.—W. T. Harris, J. Barkell, Dec. 28: Setting Report: As far as the sinking of the engine shaft goes we are in much the same position as we were last month, having had an inadequate supply of coals to keep the water down; the sinking has been in abeyance. The short supply was owing to the impassable state of the roads through frost and snow. We are now in a fair way of sinking, and hope soon to be ready for the fixing of our new plunger lift. In consequence of the water having been in the bottom level (175) we have not been able to hole to the winze sunk down from the 163, but now the water is again in fork we expect to do so in a very short time. The 163, driving east on south lode, is at present in a twitch, which we think is only temporary; set to drive by four men, at 44. 10s. per fathom. This level driving west on main lode is set to four men, at 34. 10s. per fathom the reconstilled of the condition of the sunday of the s

in this part of the linie. No improvement has taken place in any other point of operation. CAT it EDRAL.—J. Michell, Dec. 30: We are pushing the engine shaft down with all speed to the 40. Our next sale of copper takes place next Thursday. CRENVER AND WHEAL ABRAHAM UNIVED.—Wm. Thomas, S. Arthur, Dec. 29: Start's Engine Shaft: We have taken the men driving the 228 west and blaced them to take down the side of the 215, or bottom of St. George's shaft for a plat. Blewit's Shaft: In the 231 west the men are engaged in taking down the outh part of the lode; it contains a little copper ore, and is letting out more water, which we think a good indication.—Richard's Shaft: In the 220, driving west, he lode is 71t. wide, and will yield 2½ tons of copper ore per fathom. The greatest part of the tutwork men have taken on tribute varying from 3s. 6d. to 10s. in 14.

recatest part of the tutwork men have taken on trioute varying from 3s. 6d. to 10s. in It.

OWM DWYFOR (Copper and Silver-Lead).—J. Mayne (Dresser), Dec. 29: We shall take down the lode in No. 4 south on Monday next. I think it is wher and richer for lead; I like its appearance very much.—Incline: The rails are all laid at the bottom of the incline; the men are now connecting the line under the dram. I expect to get up the beams for the crusher-house on Friday next, when I will get them on the walls with all spect.

CWM ELAN (NEW).—Wm. Goldsworthy, Dec. 24: There has been no lode taken down in the 30, east and west of shaft, during the week; the men are still working by the side of the lode; I will write you the value when taken down. The 20 has been idle all the month, in consequence of the level being full of staff. The same remark applied to the winze under this level. No. 1 stope, in back of the 20, will yield 20 cwts. of lead and blende ores per fathom. No. 2 stope, in the same level, will yield 15 cwts. of lead and blende ores per fathom. The stope on the south lote, in the 20, is worth 14 cwts. of lead and blende ores per fathom. The stope on the south lote, in the 20, it wouth 14 cwts. of lead and blende ores per fathom. The stope on the south lote, in the 20, it wouth 14 cwts. of lead and blende ores per fathom. The stope was of cross-course, in the 20, will yield 14 cwts. of lead ore per fathom; we are getting the mine clear of accumulated stuff as fast as time will permit. Den BIGHESHIKE CONSOLIDATED.—John Pryor, Dec. 30: The 112 west new lode is still without change to note. The cross cut north looks more promising for lead than I have ever seen it. In the 112 cast we have met with a bed of white shale about 3 in. or 4 in, while, mixed all through with lumps of ore. I am very greatly encouraged by the appearance of the workings all through the mine today. The ground is much casier, and the men making better progress than they have done for a long time.

DEVON GREAT CONSOLS.—J. Richards, Dec. 30: Whe

greatly encourages by the expression of the men making better progress than they have done for a long time.

DEVON GREAT CONSOLS.—J. Richards, Dec. 30: Wheal Josiah: In Richards' engine-shaft, sinking below the 250, good progress continues to be made.—Richards Engine-Shaft; in the 50 west the lode is 4ft, wide, producing saving work of copper orc.—Wheal Emma, New Shaft, New South Lode: The sinking below the 150 continues between the two parts of the lode, and 1good progress is being made. In the 150 cast, the lode continues to present good indications of improvement. The lode in the 145 cast continues a good course of orc, worth 5 tons, or 40, per fathom. In Dymond's winze, sinking below the 145 cast, the lode still maintains its size; but having become more intermixed with capel, its present value, for the length and width carried, 9 ft. by 4ft., is 19 tons, or 500, per fathom. Arthur's cross cut north, at the 145, is communicated with the cross-cut south at the 148 cast of Agnes' shaft, by jwhich means the men working on the new south lode will now gain access to the man engine in the inclined shaft on the main lode, and thereby save the extra labour of climbing by folders. At the same time the water will pass back through the same cross cut to Agnes' shaft, and be pumped to surface more easily and exchannically than the workings hitherto would admir. In

thereby save the extra labour of climbing by holders. At the same time the water will pass back through the same cross-cuit to Aques shaft, and be pumped to surface more easily and economically than the workings hitherto would admit. In the 130 east, is a good course of caple, mundie, quarts, and ore, and promises speedily improvement. The lofe stripping down in Welsh's winze, below the 130 east, is a good course of ore, worth 12 tons, or 56t, per fathom.

DUBBY SYKE.—Wm. Tallentire, Dec. 21: The Dubby Syke level is clearing out satisfactorily; it is sill crushed close. There is no material change in the vein at shooting Box level; there is a great deal of kindly looking mineral in it, but not yet that mineral which we should like best to see—lead ore. We are now close to the vein east, and hope to see it by this time next week.

EASI CARADON.—J. Kellow, I. Trelease, Dec. 29: The caunter lode, in the 130 east, is 4 it. wide, producing good saving work. In the cross-cut south at this level we have just intersected a branch 8 in. wide, composed of quartz, peach, and mundic, spotted with ore; the ground inside this is favourable granite, with water Issuing from the same. We shall continue the cross-cut to prove whether there is another part of Child's lode before us. Marke's lode, in the 72 east, is 1½ ft. wide, poor. In the 60 east the lode is large, chiedly quartz, with occasional spots of ore. The ground in the 72 cross-cut noth is hard granite.

EAST WHEAL GRENVILLE.—E. Hosking, W. Bennetts, Dec. 23: We intend putting the boiler to work to-night, and hope to have good speed in forking the water.

patting the boiler to work to-night, and hope to have good speed in forking the water.

EAST WHEAL LOVELL.—Richard Quentrall, Dec. 29: Fatwork: In the new shaft, sinking below the 100, the lode is looking very well, and yielding about 3 tons of tin per fathom.—Tregonebris: The stope in back of the 34, east of new engineshaft, is worth 104, per fathom. In the cross cut, south of the 22 west, we have in tersected the lode; it is 2 it. wide, producing stamping work, but we have not sufficiently opened upon it to ascertain its value.

GAWTON COPPER—G. Rowe, G. Rowe, jun., Dec. 24: The lode in the 117, east of King's engine-shaft, is improved in character, with a leader of ore on the wall 6 in. wide, which is showing indications of future improvement. The lode in the winze sinking below the 117 is worth 154. per fathom. The lode in the rise in the back of the same level is improving; worth 84, per fathom. The lode in the rise in the back of the 15 is worth 84. per fathom. The winze sinking below the 95 is worth 54. per fathom. The bode in the stopes in the back of the 15 is worth 184. per fathom. The 95 is worth 184. per fathom. The stopes in the back of the 55 are worth 184. per fathom. The stopes in the back of the 55 are worth 184. per fathom. The stopes in the back of the 70 is worth 84. per fathom. All the other points are without change.

level in the stopes in the back of the 10 is worth 50, per fathom. All the other points are without change.

GLASGOW CARADON.—W. Taylor, W. J. Taylor, Dec. 29: No change of importance in the 7s, east on north lode; worth 50, per fathom. We have not cut the south lode in the cross-cut at this level, but are expecting to do so almost daily. In the 7s west no lode has been taken down since last reported on; then worth 50, per fathom. In the middle level west the ground is still very favourable, but the lode is just the same in value, 50, per rathom. This level east on south part is a little improved, now worth 70, per fathom, and likely further to improve. The winze in the bottom of this level west to come down on the 78 cross-cut is going down chiefly in easy ground by the side of the lode, as we want to hole it as quickly as possible; the lode, as far as we can see is about the same value as last reported. No change in the 55 east, or in the 52, east on caunter lode. The shaftmen are now fully engaged cutting down the rise the size for the shaft. The stopes and pitches throughout the mine continue to turn out about the usual quantity of ore, varying in value from 10%, to 25c, per fathom. We are busy preparing fores for our next sampling; the computed quantity we shall give next week.

GLYN.—James Roach, Dec. 39; Since my last advice we have divided and cased engine shaft to the bottom, fixed permanent ladder-road, &c.; also extended the cross-cut north at the 15 fm. level a short distance; this will now be pushed forward without impediment. I calculate we shall reach the lode about the end of January, 1876, when good and profitable results may safely be expected. There is no doubt a rich route of lead before us.

GORSEDD AND M. M. M. M. M. M. M. M. CONSOLS.—W. Edwards, Dec. 39: The new pit is

January, 1876, when good and profitable results may sately be expected. There is no don't a rich lost of lead before us. GORSEDD and MERLYN CONSOLS.—W. Edwards, Dec. 3): The new pit is progressing sations in the transfer of the man are now down nearly 15 yards, and have at loss it to solid foundation. We have got ready stone for walling, and some Absorbed in the solid foundation. We have got ready stone for walling, and some first the lime, so that all the surface water will be kept out. When this operation is complete we shall be able to spare some of our hands to work the other portion of the lode from the adit level, when I hope to announce results as expected. GREAT RETALLACK.—John Harris, Dec. 23: The lode in the 45 east continues quite as good for blende as when I last reported, worth fully 2 tons per finthe 45 west is without chance.

GREAT RETALLACK.—John the continues quite as good for blende as when I last reported, worm many times quite as good for blende as when I last reported, worm many the 45 east has improved for blende since 1st reported on, now worth fully 3 tons per fathom—a very pretty lode. In the 45 west the lode is producing patches of blende, but not sufficient to value.

GREAT WEST VAN.—T. Hodge, Dec. 39: Elizas shaft is 9 mms. 2 ft 6 in. below the 34 fm. level going, down in a very good looking rock. The 34 archivers are sufficient to value.

Great west is leaking out more water, which looks encouraging. I may state here cross cut is leaking out more water, which looks encouraging. I may state here we expected to intersect the lode and the point where we expected to intersect the lode and the point where we expected to intersect the lode and the point where we expected to intersect the lode and the point where we expected to intersect the lode and the point where we expected to intersect the lode and the point where we expected to intersect the lode and the point where we expected to intersect the lode and the point where we expected to intersect the lode and the point where we expected to intersect the lode and the point where we expected to intersect the lode and the point where the cross cut is leaking out more w ter, which looks encouraging. I may state here that the cross-cut has reached the point where we expected to intersect the lode provided its underlie were south. We have passed through several small veils, rich in ore, but we do not think any of them to be the lode we are in search of, so we intend to continue the cross-cut several fathoms further. The 34 west on the new lode is looking more encouraging.—Old Engine Shaft: In the 40 west we have about 6 ft. more to drive to be in time with the 46 west rue. This accomplished we shall commence to rise in the back of the 40 to communicate the 34 is order to ventilate the 46, and also bring the ore ground into play standing in the

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mestuff has fallen in from the old ran, which the end men are now clearing.

TILIVYD.—J. Pauli, Dec. 20: The water still hereases in the 30 cross cut; being the past week. The 20 cross cut is being stored in the consequence of the past of the pas

sinking below the 30, is 8 ft. wide, and will produce 10 cwts. of black tin per oubsic fathom.

WHEAL UNITY.—G. E. Tremayne, Wm. Mayne, Dec. 29: Setting Report: On Friday we set the following bargains. The engine-shaft men to cut a plat at the 70, as per bargain, 301. The 70, to drive east of the engine-shaft, by six men, at 81.; lode 3 ft. wide, and worth for tin 301. per fathom. To drive west at this level by six men at 84.; lode 4 ft. wide, and worth 131. per fathom. The 60 to drive east of engine-shaft by six men; lode 4 ft. wide, and worth for tin 201. per fathom of the 101. The 60 to drive east of the engine-shaft by six men; lode 4 ft. wide, and worth for tin and copper 330. per fathom. A stope in the back by four men, at 81; worth 101. per fathom. The 60 to drive east of the engine-shaft by six men; lode 4 ft. wide, and worth for tin and copper 330. per fathom. A cross-cut, to drive east of Harper's shaft, at the 50, towards William's great copper lode, by six men, at 91. 10s. per fathom. The 40, to drive east of Harper's shaft, by two men, at 41. per fathom: lode 3 ft. wide, producing good saving work for tin, and very promising for an improvement. There are 12 tribute pitches working, by 24 men, at an everage tribute of 12s. in 11; these pitches are in the shallow level, or the old parts of the mine. The engine and pitwork are working very satisfactorily, and keeping the water at five strokes per minute.

WHEAL UNY—Wm. Rich. Matthew Rogers, Wm. Rich, inn., Dec. 27: The

per minute.

WHEAL UNY.—Wm. Rich, Matthew Rogers, Wm. Rich, jum., Dec. 27: The lode in the 100 end, east of King's, carries some stones of tin. The 110 east is worth 12'. per fathom. The 120 east is worth 6', per fathom. The rise in the back of the 130 east is worth 12'. per fathom. The 140 end east is worth 10'. per fm. We hope to resume operations in the 160 east and west in a few days.

WHITEHAVEN IRON MINES.—T. Rosewarne, Dec. 30: The lode in the

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Bars, Welsh, f.o.b. Wales 6 10 0- 7 0 0	refined 89 0 0
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, Stafford., , . 8 15 0-10 5 0	Banca 88 0 0
in Tyne or Tees 7 0 0-	Straits 81 0 0- 81 10 0
. Swedish, London 15 10 0	
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, spikes	COPPER.
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STREL.	Burns and Cumamana 80 00
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, fag. ham21 0 0	BRASS.
LEAD.	Wire 9¼d
Inglish, pig, common . 22 5 0-22 15 0	Tubes 9 -12d.
, L.B22 10 0	Sheets 9 -10
, W.B23 10 0	Yellow metal sheathing 734 - 814
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pipe23 15 0-24 0 0	TIM-PLATES.* per box.
red24 0 0-25 0 0	
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SPELTER.	Black per ton 17 0 0- 17 10 0
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heet zine 31 0 0- 32 0 0	14 × 10

of all classes.

The Iron Trade (Griffiths's Weekly Report).—Friday Evening.—We report an advance of 9d. perton in g.m.b. pig-iron on the Glasgow Exchange this week, the closing price to-day being 64s. 6d. to 64s. 9d. This day week the market left off at 63s. 6d. to 64s. We quote makers No. 1 iron:—Gartsherrie, 75s. 6d.; Coltness, 79s. 6d.; Calder, 75s. 6d.; Langloan, 75s. 6d.; Summerlee, 75s. 6d.; Monkland, 66s. f.o.b.; Glasglow, Glengarnock, 71s.; Eglinton, 64s. f.o.b. Ardrossan; Shotts, 74s. 6d. f.o.b. Leith: Kenniel, 66s. 6d. f.o.b. Boness.

We have very little change to notice in the iron trade this week. Pig-iron is a little better in Glasgow, Middlesborough, and at Barrow, and the market was stronger yesterday on the Birmingham Exchange. One thousand eight hundred and seventy-five has been a year of strikes and rumours of strikes with the workmen, and to-morrow being the first of the new year, the colliers of the Black Country and the Cannock Chase district will give notice for an advance of wages. This is a bad beginning for the new year. The present depressed state of the iron trade and the complete invasion of the London from market by the Belgian Iron-masters ought to have taught the advisers of the colliers wages. One thing is certain—that a higer rate for coal will close the working of at least a third of the furnaces now in blast in South Staffordshire.

We have had but a very moderate business in iron on our market this week. The demand for boiler plates and ship plates has fallen off considerably. The raders for sheet-iron are less urgent for delivery; indeed, the sheet-iron demand is easier, with a diminished volume of orders on the market. This remark applies to all and every kind of iron, every a special brands we may mention at the head of this category. Baldwin's sheets, which are still in good demand. The rail trade is in a deplorable condition, no orders coming forward. With regard to the tin plate rade, no doubt the market is firmer. Our friends in tils department will do well to avoid h

Messrs, James and Shakspeare—Coppers: A further reduction of about 5s, per ton is to be noted in Chili bars, but this alteration is more nominal than real, as it arises principally from the indifference of buyers to operate at the present moment. France is still supplied by direct importations, which are offering in the Paris market at about 30s, per ton below the cost of import from this side, this difference arising chiefly from the duty levied on indirect shipments. There is no change to note in Australian; and stocks are likely to show a considerable reduction during the present month, some large parcels of Wallaroo having been lately shipped to Havre. English sorts are steady, with a moderate enquiry at our lowest quotations.——The Butter sort, however, shows a decline of 8d. to 1s. per cut, and the tendency of the market is evidently towards a close assimilation in values for both descriptions.——Lead: The rise in this metal has made further progress, and buyers who require immediate delivery, either of Spanish or English pig, find it necessary to pay full rates; but the demand seems to be somewhat checked by the rapid upward movement.—The-PLATES also show a tendency to advance, and makers are becoming indifferent to booking orders, except on their own terms.

Messrs. Henry Rogers, Sons, and Co.—Coppers: Bars remain steady

Mesers. Henry Rogers, Sons, and Co.—COPPER: Bars remain steady at 81. to 81. 10s.; but business in this metal is at a standatill. English copper is a shade firmer.—Tix: @outations have gone back a little, the demand not being so brisk.—Spectrag very firm in price, but the market is by no means active.—Lead is again fractionally dearer, supplies being still short. The demand, however, is not large.

Messrs. French and Smith—Copper quiet.——Tin also dull, but triffing transactions.——Lead firm, with but few transactions to report change in quotations.——QUICKSILVER steady. -Trn also dull, with

Messrs. Sanford and Bird—Copper: There is very little doing, and prices remain without change.—The has been in good demand for consumption, and prices have consequently kept firm. The market closes quieter in tone.—The Platzes are still in fair demand, and prices are well maintained. In other metals no change to report.

Mr. Murrant-Tin: The value of foreign has not fluctuated more than 10s, per ton during the week; but the market has been quiet and flabby The Christmas holidays and Malay outbreak having passed away at about on time without affecting the price of tin, no great change in values can be looker for at present. The week's sales have been 130 tons Straits and Australian at 80s to 82s. for cash and forward delivery.

Messrs. Vivian, Younger, and Bond--COPPER: There has been little few sales of Urmeneta and special brands at 811. 10s. to 821. 5s. In Wallarco and Burra cake a small business at 901. to 901. 10s. and 891, respectively. Other brands of Australian at 861. to 891, as in quality. No change in English descriptions, and the demand continues dull.—Tin: Foreign in moderate request, with sales of Straits at 81s. to 81s. 6d., and Australian at 89s. to 80s. 6d., closing with a quiet market. English only in moderate demand, at 83s. to 84s. for common ingots.—Tin. PLATES: Steady.—IRON: No change.—SPELTER: Steady.—LEAD: Firmer.

The Christmas holidays, immediately succeeded by the settlement of the fortnightly account in the MINING SHARE MARKET, have interfered with general business since our last, and prices are again

terrered with general business since our last, and prices are again, for the most part, nominal.

The mines dealt in have been Van, Roman Gravels, Tankerville, Parys Mountain, Pateley Bridge, West Chiverton, Tincroft, Santa Barbara, South Condurrow, East Van, Devon Great Consols, Argentine, Penstruthal, Marke Valley, and a few others.

We have upon more than one occasion of late expressed an opinion that owing to the large earlier of the services of the service and the services of the service of

ere long.

Among the heavy tin mines, Carn Brea shares are 37 to 39; Dolcoath, 40 to 42½; Tincroft, 20 to 21; Cook's Kitchen, 5½ to 6; South Condurrow, 5 to 5½; Devon Consols, 4 to 4½; Great Laxey, 15½ to 16; Great Wheal Vor, 2½ to 3½. Penstruthal, 8s. to 10s.; this mine is improving. West Chiverton, 15½ to 16, ex div.; West Craven Moor, 10 to 10½; West Tolgus, 60 to 62½; Wheal Agar, 1½ to 2. Wheal Bassets have advanced to 20, 25, on a discovery of copper. Wheal Kitty (St. Agnes), 2½ to 3; Wheal Uny, 1½ to 2; St. Patrick, 1½ to 1½. New Chiverton, 6½ to 7; shaft down 11 fms. below the 35, and valued by Capt. Southey, of West Chiverton, at 20/. per fathom. The 35 north is driven 34 fms., of which 20 fms. are worth 10//. per fathom, the rest a good leady lode. The tribute is looking very weil. Great West Van, 10s. to 15s.; the lode in the 46 west is improving, worth 15 cwts of lead per fathom. Cathedral, 20s. to 30s.; the manager reports the shaft to be almost down to the 40, at which point a good course of copper ore is expected. The next sale of copper will be made next week.

St. John Del Rey, 380 to 400; at the meeting here the Chairman stated that the profit paid to the shareholders since 1834 had been 1,035,640′, and the present profits are equal to 150,000′, per annum. Santa Barbara, 1½ to 1½; this mine is also in Brazil, and in precisely similar ground to St. John Del Rey; upon comparison of specimens of the ore from both mines the difference is exarcely perceptible. This and Argentine would appear to be the coming gold mines for 1876. Argentine, 6½ to 7; San Pedro, 2½ to 3; this is another of the "coming mines," and the advices just received, and which will be found in another column, are considered satisfactory. Almado and Tirito, ½ to ½; Cedar Creek, ½ to 1½; Eberhardt and Aurora, 8½ to 9; Emma, 1 to 1½; Flagstaff, ½ to 1½; Frontino and Bolivia, 1½ to 1½; Last Chance, ½ to ½; Chicago, 6½ to 6½; New Quebrada, 4 to 4½; Richmond, 7½ to 8; South Aurora, 8 to ½; Sweetland Creek, 2¾ to 3.

The Market for Mine Shares on the Stock Exchange during the week has been characterised by the inactivity usual at the close of the year. Little has occurred calling for attention, nearly the entire business having been in connection with the fortnightly account, commenced on Tuesday and completed on Thursday. As usual, the last settlement of the year was exceptionally heavy, but passed off without difficulty, showing that the business generally has been sound and of a bona fide character. New business has been checked by the somewhat stringent aspect of the money market, causing the directors of the Bank at their weekly court on Thursday to advance the official minimum from 3 per cent. (to which it was reduced on Nov. 18) to 4 per cent.; this movement was partly expected on account of the persistent withdrawals of gold for abroad and the weakness of the foreign exchanges, in addition to the usual demands at the end of the year. It is believed that for the present gold will continue to be sent from this side, although the drain is not expected to be of any duration. The Market for Mine Shares on the Stock Exchange during the

o be of any duration.

It is unnecessary here to refer to the condition and prospects the metal markets, as the usual annua' review appears in another

art of to-day's Journal.

Lead Mines during 1875 have maintained a favourable and improving position. Many of the more prominent descriptions have declared larger dividends; encouraging progress has been made in the development of others; the general indications in this departmentare quite satisfactory. Van, the chief representative, has conmentare quite satisfactory. Van, the chief representative, has continued to open out remarkably well; 5720 tons of lead have been sold during the year, realising 90,177., and 1750 tons of blende, realising 5150., or a total of 95,327. The April dividend paid was 9000.; June, 9750.; September, 10,500.; and December (15s. per share), 11,250.—a total of 40,500. during the year. Considerable expense has been incurred in re-constructing the whole of the dressing floors, making them equal to larger returns. A new reservoir ing floors, making them equal to larger returns. A new reservoir ing floors, making them equal to larger returns. A new reservoir has also been built, nearly doubling the quantity of water hitherto available, and also another row of miners' cottages, the whole of this expenditure has been met out of the revenue. The lode in the 90 west is worth 1001, per cubic fathom; the 70 west, 1001, per cubic fathom, and the 60 west, 301, per fathom; the engine-shaft is down to the level of the 105, where there appears to be a great improvement as splendly rocks of lead or a gre being cut in north side. provement, as splendid rocks of lead ore are being cut in north side of the shaft. It would seem the lode is making its appearance in the shaft, indicating that the lode from the next level above widened We have upon more than one occasion of late expressed an opinion that owing to the long continued depression in the mining market is the total the long continued depression in the mining market is the total the long continued depression in the mining market is the total the long continued depression in the mining market is the total the long continued depression in the mining market is the total the long continued depression in the mining market is the total the long continued depression in the mining market is the total the long continued depression in the mining market is the total the long continued depression in the mining market is the total the long continued depression in the mining market is the long continued depression in the mining market is the total the long continued depression in the mining market is the long continued depression in the mining market is the long continued depression in the mining market is the long continued depression in the mining market is the long continued depression in the mining market is the long continued the long continued the long continued depression in the mining market is the long continued to the mining market is the long continued the mining market is the long continued to the mining market is the long continued the long continued the mining market is the long continued to the mining marke

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20. 2 days a many hopered the wind of mixing about 10. wife, the wind of the plan were more generally depleted by \$1. 30. to direction have this work dependence of the plan of

1500/, per month, and with the 100 heads the profits should be quadrupled.

Silver Mines during 1875 have, on the whole, made fair progess with results tolerably satisfactory. The most noteworthy feature has been the altered condition of the Eberhardt Company; the heavy indebtedness has been paid off, the debentures redeemed, and a dividend of probably 7s. 6d. or 10s. per share will be paid early in the year. Richmond shares upon the "account" hardened up to 73, 84, and then flattened to 7½, 7¾, closing 7½ to 7½. Cablegram received—"Week's run, \$38,000." The season's make of bullion is \$1,432,000, and since February \$1,962,000. The refinery this season has produced gold and silver to the value of \$925,000, irrespective of the lead. The run this week is not a satisfactory one, and it may be hoped that some sufficient explanation of the cause may be afforded. The large furnaces employed by the company need skilled smelters to do them justice, and no pains should be spared to procure efficient hands. It is a misfortune that the chief smelter, Mr. Stringer, had become so completely "leaded," as it is termed, that it was necessary for him to go away to recruit his health. Two of the miners have, unfortunately, been killed, owing to the collapse of an abandoned stope, from which they were making a drift, shutting them off from the possibility of escape. The accident does not interfere with the working of the mine in any way, the site of the disaster being between the 200 and 400 ft, levels, where all the ore had been taken out. The manager's report this week gives the depth then at tained in the winze sunk below the 600 in continuation of the main lode as "35 ft, in good ore;" the stope in the new discovery in the 600 drift, between the main lode and hoisting shaft, is "opening out well."

The extension of the Lizette Tunnel is stated to be "looking very promising; the end to-day is also in ledge matter, with pieces of low gapposed to run through the mine in continuation of the winter are generally softened by the fi Silver Mines during 1875 have, on the whole, made fair progess ith results tolerably satisfactory. The most noteworthy feature

lead, and good smelting results cannot be made till a sufficient addition can be provided from the bottom of the mine, which the new hoisting power now makes available, as soon as the ore can be hauled when raised. The Eureka Sentinel of Dec. 3 has the following:—

when raised. The Eureka Sentinel of Dec. 3 has the following:—

"From persons who have recently visited the lower depths of the Richmond was are informed that the mine has never presented so favourable an appearance as at present. At the 600 ft. level fine bodies of ore have been struck, all of which are making downwards, and everything indicates that they are on the croppings of a bonanza which extends indefinitely in the direction of the centre of gravitation. As that depth in the Richmond is at least 100 ft. lower than the lowest workings of any other mine in Ruby Hill, the recent discoveries are encouraging evidence of the permanency of the deposits in that vicinity."

The past year has been an uneventful one in the history of the hydraulic gold mines represented on the English market. The bad water season prevented any very great amount of washing, but nevertheless the different companies have been exceedingly busy in constructing increased facilities for dealing with the auriferous gravel, and this year will doubtless show the value of the works thus undertaken. Sweetland Creek mines were shut down for nearly five months during the first part of the year, owing to their water five months during the first part of the year, owing to their water contract being out. As soon as the new contract was entered into washing recommenced, and although the work was thus resamed as the slow-water season was drawing to an und. The company has made some 5000l. profit to date of last clean-up, end of November, and divided 3000l. amongst the shareholders of the company.

Weshing was as told is now; in full blast with ample water and Washing, we are told, is now in full blast, with ample water, and

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prospects good. Birdseye Creek during the year has been busily occupied in running a tunnel and sinking a shaft to open up their Red Dog claims. This work was completed at the close of last summer, and the tunnel, 775 ft. in length, blocked and put in order for washing through. In completing this work the company made use of the profit obtained from working other portions of the property, and thus enter upon the current season fully prepared to take advantage of the water, and with claims in good shape for washing. Work has been resumed on three different sets of claims, and the future of the company is exceedingly promising. Codar Creek: The annual meeting has been held so lately that we make but a passing reference to it, especially as we published full particulars of the meeting in a late impression. There can be no doubt, however, but that if the money to complete the Yankee Tunnel is forthcoming as indicated, the company will take a much better position during the coming year. Blue Tenthas undertaken and carried out a gigantic work during the year—the completion of a ditch to carry about 4000 inches of water from the South Yuba river to the property, a distance of over 30 miles, and are now running water through it and washing therewith. Of course, being new, it would not be judicious to work the aqueduct to its full capacity, but persons conversant with this description of mining are of opinion that when fully utilized the returns will be exceedingly large, as the company possess an immense quantity of rich gravel, have a splendid outlet and free water, and can bring more water to bear on the face of the bank than any English company has been hitherto able to obtain. Oregon has been formed during the past year, and have commenced operations with spirit. They have completed a tunnel, enlarged their ditch, thus securing ample water supply, and are now fixing new monitors to use the water. In the meantime, their agent cables that he has started washing on one claim and nearly completed a short branch ditch w

water supply, and at on the cables that he has started washing on one claim and nearly completed a short branch ditch which, when finished, will enable him to commence operations on other portions of the gravel.

The shares of the various Hydraulic Gold Companies upon the Stock Exchange during the week have not exhibited much alteration, though there has been an enquiry for them, notwithstanding the close of the year, and the usual fortnighty settlement. Blue Tent, 4 to 4½; washing has been resumed with water from the company's own ditch, and will henceforth be steadily carried on during the season. In another column we print some extracts from the report made by Prof. Price on the completion of the aqueduct, detailing the particulars of the work done. We have no doubt this ditch will make the company an immense success. Sweetland Creek shares close steady, at about last week's quotations—2½ to 3, ex div. The agent, Mr. G. D. McLean, reports that he is steadily washing.

Birdseye Creek have improved upon enquiries for the shares, and are now quoted 2½ to 2½; shares very scarce. Washing is now being carried on at three claims, with every appearance of good result. Oregon pref, 4 to 4½; a telegram, printed in another column, announces that the agent has commenced work on the Thoss claime while the other necessary operations in the tunnel and ditches ar well on towards completion.

Copper Mines during 1875 have again been represented by Cape Copper. The output up to the end of October from Ookiep was 8975 tons of 29 per cent, ore, and 448 tons of over 30 per cent, from Spectakel, of the gross value in round numbers of between 200,000. and 220,000.; the cost may be estimated at about 10s. 6d, per unit, and prices realised 16s. 6d, per unit, or a profit of 9L per ton. In 1874 the output from Ookiep was 7475 tons, and Spectakel 505 tons. The increase has taken place more particularly in the last two months. One of the most favourable points in Ookiep is the considerable lengthening of the ore ground east in the 68. T

dealt in at 3, 34. The details of the general meeting appear elsewhere.

Subjoined are the closing quotations:

Assheton, ½ to 1½; Bog, ½ to ½; Carn Brea, 38 to 40; Devon Great Consols, 4½ to 4½; Dolcoath, 40 to 42; East Caradon, 1½ to 1½; East Van, 2½ to 3; Great Laxey, 15 to 16; Great Wheal Vor, 2% to 3½; Hingston Down, 1 to 1½; Marke Valley, 3 to 13½; Pateley Bridge, 4½ to 5½; Pennerley, 1½ to 11½; Pen struthal, 8s, to 10s,; Parys Mountain, 10s, to 12s,; Roman Gravels, 11½ to 1½; Tankerville, 10½ to 11; Yan, 32 to 34; Yan Consols, 1½ to 15½; West Basset, 8 to 1½; to 1½; Subject Consols, 1½ to 15½; West Granda and Trito, ½ to ½; Argentine, 6½ to 7; Britseye Creek, 2½ to 2½; Cape Copper, 37 to 38; Cedar Creek, ½ to 1½; Chintales, 3½ to 3½; Emma, 1 to 1½; Exchequer Gold, ½ to 3½; Elsenbard and Aurora, 8½ to 8½; Emma, 1 to 1½; Exchequer Gold, ½ to 3½; Elsenbard and Aurora, 8½ to 8½; Emma, 1 to 1½; Exchequer Gold, ½ to 3½; Elsenbard and Aurora, 8½ to 8½; San Pedro, 2½ to 3½; South Aurora, ½ to 1½; Sweethand Creek, 2¾ to 3; Tecoma, 3; to 1; United Mexican, 4 to 4½; Blue Teat, 4 to 4½; Oregon pref., 4 to 4½; Blue Teat, 4 to 4½; O

Pecoma, % to 1; United Mexican, 4 to 4%; Blue Fent, 4 to 4%; Oregon pref., 4 to 4%; As 4 to 4%.

BHEFFIELD.—Mr. J. R. Heard, stock and share broker, in his weekly report, says—Very little business has been done during the pust week on account of the Christmas holidays. Parkgate, 25 per cent. better. Bilbac Iron Ore Company, 43 to 45; Bolckow, Yaughan, and Co., 12% to 12% prem.; Charles Cammell and Co., 68 to 5% dis., 6½, 6¾; Ebbw Vale Steel and Iron Company, 15½ to 15½ dis., 10hn Brown and Co., 6 to 7 prem.; Midland Iron Company, 31 to 4 prem.; Parkgate Iron Company, 11½ to 12½ prem.; Midland Iron Company, 3 to 4 prem.; Parkgate Iron Company, 11½ to 12½ prem.; Sheepbridge Coal and Iron Company, 44½ to 45½ prem.; Davy Brothers, 11½ to 11½ prem.; Earl's Shipbuilding, 20 to 18 dis.; John Crossley and Sons, 3½ to 3½ prem.; Jos. Rogers and Son, 205 to 210; Palmer's Shipbuilding Company, 14½ to 13½ dis.; Wm. Jessop and Sons, 20 to 3½ prem.; Jos. Company, 123 to 128; Shieffield Tarmaway Company, 8½ to 8½; Sheffield Gas A stock, 205½, 209½, 209; Sheffield Gas B stock, 205½, 209½, 209; Sheffield Gas B stock, 205½, 209½, 206, odd lot 8.

HALIFAX SHARE MARKET.—Dec. 30: The following quotations are from Mr. J. H. Thackrah's list:—Halifax and Huddersfield Union Bank, 30: Halifax Joint-Stock Bank, 28½; Halifax Commercial Bank, 25: London and Yorkshire Bank, 28s.; John Crossleys, 13¾; Whitworth and Co., 9: Elland Gas, 20; Rastrick Gas, 18½; Eradford Brick and Tile, 9½; Ripponden Commercial, 12½; Hebden Bridge Cotton, 10; Yorkshire Boiler and Insurance Company, 21s.; Norton Brothers, 81-16th.

At Swansea Ticketing, on Tuesday, 1425 tons of copper ore were

At Swansea Ticketing, on Tuesday, 1425 tons of copper ore were sold, realising 20,811.9s. 0d. The particulars of the sale were—Average standard for 9 per cent. produce, 104.12s. 0d.; average produce, 17\(\frac{x}{2}\); average price per ton, 14.12s. 1d.; quantity of fine copper, 251 tons 3 cwis. Subjoined are the particulars of the two last sales:—

Date. Tons. Standard. Produce. Per ton. Per unit. Orecopper. Dec. 7. 1411. £102 14 0 1044. £8 5 2 15s. 9d. £78 15 0 Dec. 28 1425 104 12 0 17\(\frac{x}{2}\). 14 12 1 16 6 \$21 0 0 Compared with the last sale, the advance has been in the standard 11.1 18s. 0d., and in the price per ton of ore about 6s. 8d. There will be no sale on Jan. 11.

be no sale on Jan. 11.

CAPE ORES .- Messrs. Richardson report that at the Swansea Ticketing, on Tuesday, the Cape ores sold gave an average produce of 24 15-16ths, and realised 16s.8d. per unit, or 20l. 14s. 10s. per 21 cwts. dry weight of ore. The average standard was 92l. 4s. 9d. = 104l. 19s. 6d. for 9 per cent. produce. which is about 8s. Lawra they determine the standard was 92l. 4s. 9d. = 104l. 19s. 6d. sponding calculated standard realised for other ores.

Messrs. C. and F. Kemp and J. E. F. Aylmer, the official liquidators of the Bessemer Steel and Ordnance Company (Limited), have announced a first and final dividend of 5s. 3d. in 1/.

WEST TANKERVILLE.—The boundary shaft is down 6 fathoms below the 63. The 63 south is worth 2 tone of lead one per fathom and the stope in this level 1½ ton. The winze below the 50 is down 7½ fathoms, lode worth 3 tons per fathom; No, 1 stope in this level,

 $1\frac{1}{2}$ ton; No. 2 stope, $1\frac{1}{2}$ ton; and No. 3, 1 ton. The 50 south, $1\frac{1}{2}$ ton, and the stope in the 46, 25*l*. per fathom.

NEW CHIVERTON.—The shaft is sunk 11 fms. under the 35, where the lode is valued at 20*l*. by Capt. Southey, of West Chiverton, who has just inspected the mine. The 35 north is driven 34 fms., of which 20 fms. are worth 10*l*. per fathom, and the rest a good leady lode. By March the 50 will be reached, and a rich lode probably opened on there at once. The tribute department looking well.

Bristol Mining School.—The following are the results of the examination for the prizes given by the governors for general success in the studies of the past term:—First prize, Mr. E. Lewis, of Masyewmmer; second, Mr. Griffiths, of Blaina; third, Mr, Pardoe, of Aborden

FROM A LONDON BROKER'S CIRCULAR,

Business in the Stock Exchange during the past week has been of an extremely limited nature, and chiefly confined to English rail-ways, which in most cases have materially improved in price. Great Western, North British, London and North-Western, and Berwick show a rise for the week of from 3 to 4 per cent.; Sheffield, Great Eastern, and Caledonian from 1 to 2 per cent. London and Brighton stock has been duil, the ordinary having fallen about 1 per cent. The traffic returns issued this week were very good. In the foreign market there is little change worthy of note. Tarkish and Egyptian stocks have been freely sold, the former having relapsed 1 per cent. Peruvians keep steady, but show no particular movement, great uncertainty still prevailing as to the payment of the coupons. Among miscellaneous securities the stock of the Anglo-American Telegraph Company has been largely sold, and has fallen about 1½ per cent. The rise in the Bank rate yesterday of 1 per cent. Had little effect on the market, as it was generally anticipated.

London, Dec. 31.

J. Y. WATSON, JUN.

PATELEY BRIDGE LEAD MINES AND SMELTING COMPANY (LIMITED).

MESSRS, F. W. MANSELL AND CO. (SWORN BROKERS)

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SAN PEDRO, ST. JOHN DEL REY, STOCK EXCHANGE MARKET, &c.
See page 3 in to-day's Journal.
STOCK EXCHANGE SECURITIES BOUGHT and SOLD for INVESTMENT
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F. W. M. and Co. have Special Rusingers in the Avent Street

F. W. M. and Co. have Special Business in the above Shares. 14, Pinner's Hall, Old Broad-street, E.C. [Established 1857.]

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DUNEEN BAY MINERAL COMPANY
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WANTED, a COMPETENT MINE MANAGER. One who
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WANTED, a MINING CAPTAIN, from 28 to 35 years of age, to ERECT COPPER ORE DRESSING MACHINERY, LAY OUT DRESSING FLOORS, and SUPERINTEND DRESSING. Must have had great experience in this department, and be able to draw out plans for and superintend making of the necessary machinery. He may be under a Resident Manager, but will have to advise as to, and at times take charge of, the underground operations. Apply, stating experience, references, and salary expected, "W.," MINING JOURNAL Office, 28, Fleet street, E.C.

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ANTED, a PORTABLE ENGINE, 5 to 8-horse power, adapted for pumping and winding. New, or equal thereto; age, price, and maker's name.

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ANTED, a NEW or GOOD SECONDHAND direct-acting PUMPING ENGINE, about 60 in. diameter of cylinder, with 9 or 10 ft. stroke. Al o, 100 yards of 18 or 20 in. PLUNGER LIFT, with rods, &c., all complete, and in thoroughly good working order.

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27, PARK PLACE, NEW YORK.

Vice-President of the American Institute of Mining Engineers: of the American Society of Civil Engineers; of the North of England Institute of Mining Engineers; of the Geological Society of France, No., No.; Editor of the Engineering and Mining Journal, New York.

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		LEA					
Date.	Mines.	Tons.	Price	pe	r to	n.	Purchasers.
Dec. 10-7	Talvbont		£13	11	0		Nevill, Druce, and Co.
13-1	Lisburne—Glogfa	wr. 60	15	4	6 .		Weston, Son, and Co.
	—Glogfa	ch. 12	19	18	0 .		Burry Port Company.
-1	East Darren	55	18	10	0 .	*****	Panther Lead Company.
(Cwmystwith	25	13	12	6.		Burry Port Company.
23-0	Caelan	7	14	10	0 .		Walker, Parker, and Co.
24-1	Rhoswydol	20	13	16	6 .	*****	South Wales Company.
27-1	Lieburne - Frongo	ch. 50	14	9			Panther Lesd Company.
	" -Graigo	ch . 24		-			Weston, Son, and Co.
28-1	Foxdale	100	24	1	6 .		Burry Port Company.
29-1	Llanidloes	20	14	9	0 .		Nevill, Druce, and Co.
-	Wye Valley	40	14	13	0 .	*****	ditto
-(reat Laxey	100	25	2	6 .		ditto
30-1	Ladywell	25	13	18		*****	ditto
-6	rogwinian	70	15	4	6.	*****	Walker Parker, and Co
Dec. 24-	Willoughby	Tons 30	£ 4	per	o .		Purchasers. Vivian and Sons. ditto

1						Villiers Spelter Co.
Date Dec. 2	Tons c.	q. lb	. Pric	e pe	r ton.	Ameunt, Purchaser, £301 16 8—Daubuz&Co.

COPPER ORES. Sampled Dec. 15, and sold at Swansea, Dec. 28.

Mines. Ton						Mines. Tons. Produce. Pr	rice.	
Cape Ore 6					6	Knockmahon139 634 £5	3	-
ditto 6					6	ditto125 614 5		1
ditto 63	3	243/4	. 20	6	6	ditto 63 91/2 7		1
ditto 6	·	251/8	20	12	6		16	1
ditto 6					6		6	(
ditto 6	4	25	. 20	12	6	ditto 68 1154 9	11	4
ditto 66	i	25	20	17	6	ditto 30 91/2 7		1
ditto 6	4	25	20	17	6	Concordia 33 191/2 16	0	1
ditto 6	1	25	. 20	17	6	ditto 25 1934 16	4	-
ditto 69		251/	. 20	19	0		16	é
ditto 68					6	., Ore 10 21/ 0	18	1
ditto 60					6		19	(
			TOT	LAL	P	RODUCE.		
Cape Ore	771	£15	.991	6	0	Copper Regulus 12 £261	18	1
Knockmahon .	349	1	,931	10	0	Copper Ore 10 9	5	1
Berehaven	223	1	.672	13	0		18	
Concordia Ore .	58	*****	933	0	0		-0	,

COMPANIES BY WHOM THE ORES	8 WEI	RE PUR	CHASI	ED.	
Names.	Tons.		Ame	oun	t.
Copper Miners' Company	126		€ 2.372	18	0
P. Grenfell and Sons	192	********	4,008	0	0
Nevill, Druce, and Co	24	********	283	1	0
Vivian and Sons	. 504	*******	2,953	10	0
Williams, Foster, and Co	258	*******	4,512	17	0
British and Foreign Copper Company	33		656	16	Ú
Mason and Elkington	160	*******	3,296	16	0
Sweetland and Company	60	******	1,282	0	0
Lundore Smelting Company		*******	1,445	11	0
Total	1425		220,811	9	0
O SALE on Jan. 11.			,		-

COPPER ORES. Sampled Dec. 8, and sold at the Royal Hotel, Truro, Dec. 23.

		- 1	FICE	e.	Mines.	rons.	- 1	ric	e.
				6	Glasgow Caradon	85	£5	11	6
			13	0				5	
			9	0				7	6
************	85	7	4	6				3	6
************	79	6	5	0		68	3	5	
*************	61	7	7	6				7	ŏ
************	59	13	14	6			ī	10	0
**************	55	6	10	0			9		A
************	54	4	19	0		82	3	3	
************	53	6	5	6			8	4	ň
*************	51	6	6	0	East Caradon	61	4	11	ň
************	47	12	19	6			Ā		
************	46	7	17	0	Wheal Russell	71	3	0	ž
	40	9	19	0			3	2	Ā
llev	105	3	10	6	Bedford United	68	3	12	ě
		3	10	0				-5	0
***************************************	78	3	16	0	Phœnix	80	7	3	
************	75	3	1	6	Wheal Friendship	31	å	4	0
*************	62	3	15	6	ditto	29	4	7	Ä
***************************************	36	2	9	6		80	K	4	4
		2	5	6			3	11	
		4	6	0	***		11		
		2	1	6			**	10	
	T	OT	AL	PI					
	nadon	radon 01 90 90 90 90 90 90 90 90 90 90 90 90 90	radon 91 £5	radon 91 £5 3 90 612 89 8 8 9 85 8 6 9 74 96 5 91 10 7 7 99 13 14 55 6 10 54 41 19 55 6 5 47 12 19 40 9 19 105 3 10 75 3 1 65 3 10 75 3 1 65 3 10 75 3 1 65 3 10 75 3 1 65 3 10 75 3 1 65 3 10 75 3 1 65 3 10 75 3 1 67 3 1 68 3 15 75 3 1 69 3 4 6	radon 91 £5 3 6 90 612 0 89 6 12 0 89 89 5 9 0 85 7 4 6 79 6 5 0 61 7 7 6 55 610 0 53 6 5 6 47 12 19 6 53 6 5 6 47 12 19 6 00 18 5 3 10 6 00 75 3 1 6	radon 91 £5 3 6 Glasgow Caradon ditto ditt	radon 91 £5 3 6	radon 91 £5 3 6	radon 91 £5 3 6 6 Glasgow Caradon 85 £5 11 90 6 12 0 ditto 70 4 7 869 5 9 0 ditto 70 4 7 879 6 5 0 ditto 70 4 7 879 7 1 4 6 ditto 26 1 870 6 10 0 ditto 26 1 870 6 10 0 ditto 26 1 870 6 10 0 ditto 10 9 870 7 17 0 ditto 26 1 870 8 5 10 0 ditto 46 8 4 870 8 5 10 0 ditto 54 4 9 870 8 5 10 0 ditto 54 4 9 870 8 5 10 0 ditto 54 4 9 870 8 5 10 0 ditto 54 4 9 870 8 5 10 0 ditto 54 4 9 870 8 5 10 0 ditto 54 4 9 870 8 5 10 0 ditto 54 4 9 870 8 5 10 0 ditto 54 4 9 870 8 5 10 0 ditto 54 4 9 870 8 5 10 0 ditto 54 4 9 870 8 5 10 0 ditto 54 4 9 870 8 5 10 0 ditto 54 4 9 870 8 5 10 0 ditto 54 4 9 870 8 5 10 0 ditto 54 4 9 870 8 5 10 0 ditto 54 4 9 870 8 5 10 0 ditto 54 4 9 870 8 5 10 0 ditto 54 4 9 870 8 5 10 0 ditto 54 4 9 870 8 6 7 10 0 ditto 54 4 9 870 8 7 10 0 0 ditto 54 4 9 870 8 8 7 10 0 ditto 54 4 9 870 8 8 7 10 0 ditto 54 4 9 870 8 8 9 10 0 ditto 54 4 9 870 8 8 9 10 0 ditto 54 4 9 870 8 8 9 10 0 ditto 54 4 9 870 8 8 9 10 0 ditto 54 4 9 870 8 8 9 10 0 ditto 54 4 9 870 8 8 9 10 0 ditto 67 3 7 870 8 10 0 0 ditto 67 3 7 870 8 10 0 0 ditto 67 3 7 870 8 10 0 0 ditto 67 3 7 870 8 10 0 0 ditto 67 3 7 870 8 10 0 0 ditto 67 3 7 870 8 10 0 0 ditto 67 3 7 870 8 10 0 0 ditto 67 3 7 870 8 10 0 0 ditto 67 3 7 870 8 10 0 0 ditto 70 0 870 8 10 0 0 ditto 70 0 870 8 10 0 0 ditto 70 0 870 8 10 0 0 0 ditto 70 0 870 8 10 0 0 0 ditto 70 0 870 8 10 0 0 0 870 8 10 0 0 0 870 8 10 0 0 0 0 870 8 10 0 0 0 0 870 8 10 0 0 0 0 870 8 10 0 0 0 0 870 8 10 0 0 0 0 870 8 10 0 0 0 870 8 10 0 0 0 0 870 8 10 0 0 0 0 870 8 10 0 0 0 0 870 8 10 0 0 0 0 870 8 10 0 0 0 0 870 8 10 0 0 0 870 8 10 0 0 0 870 8 10 0 0 0 870 8 10 0 0 0 870 8 10 0 0 0

U1110	0	19		ditto		29	4	4	- 6
ditto 36		9	6			30	. 5	4	Ä
Hingston Dowr113	2	5	6	ditto					
ditto 83	4	6	0	ditto				10	
ditto 69	2	1	6						
	TOT	AL	PI	RODUCE.					
South Caradon 900			0		115	£	519	4	0
Marke Valley 441	1517	16	0	Wheal Russell	102		311		
Hingston Down 265	757	3	0	Bedford United		******	413		
Glasgow Caradon . 255	1246	14	6	Phoenix	80	*****	574		0
Gawton 171	582	8	0	Wheal Friendship	60		407		
West Maria & For. 128	637	11	0	Wheal Emma	49		296		6
Average standard			0	Average produce				7	3/6
Average price p	er ton	*****			£8	4 6			
Quantity of ore	nonev	. 26	46	Quantity of fine cop	per	189 ton	# 7 c	wts	
TARM CATTO	money		****		0 4	, 0			

COMPANIES BY WHOM THE ORES WERE PURCHASED. Names. Tons. Amoun

 Names.
 Tons.
 Amount.

 Vivian and Sons.
 450
 £2710
 7
 0

 Grenfell and Sons.
 135
 1038
 16
 6
 Nevill, Druce, and Co.
 373
 1428
 14
 3
 Williams, Foster, and Co.
 59614
 2981
 18
 3
 Mason and Elkington
 421
 1852
 4
 9
 Copper Miners' Company
 195
 1415
 15
 0
 Charles Lambert
 199
 1017
 18
 6
 8weetland, Tuttle, and Co.
 2854/2
 1353
 11
 3

... 2646 £13,829 5 6

Copper ores for sale at Tabb's Hotel, Redruth, on Thursday next.—Mines and parceis.—West Seton 475—Crenver and Abraham 385—West Tolgus 226—East Pool 188—Carn Brea 183—West Baset 153—Bouth Crofty 118—South Carn Brea 86—Carn Camborne 85—Condurrow Mine 66—St. Aubyn United 65—West Poldice 55—Cathedral 35—West Rokear 31.—Providence Mines 30—New Rosewarne 80—Deleoath 21.—Poldice 10—Seuth Toloarne 8—Richards' Ore 2.—Total, 2262 tens.

Notices to Correspondents.

• Much inconvenience having arisen in consequence of several of the Numbers during the past year being out of print, we recommend that the Journal shauld be kied on receipt; it then forms an accumulating useful work of reference.

SIR,-Can any reader inform me if tale with a beautiful display of colour is mar-ketable?-T. H. A.

Sir.—Can any reader inform me if tale with a beautiful display of colour is marketable?—T. H. A.

Trenkological dictionaries — English, French, German — are the abridged Karmarsch, published at about 9s. the three volumes by Trübner and Co., of Ludgate Hill, and Tolhausen's, published by Sampson Low and Co. The latter, however, is not complete: the third volume was promised during 1875, so that it may be expected shortly. Karmarsch is, perhaps, the best for general use, that of Tolhausen being a compliation by one person of necessity imperfectly acquainted with the technicalities of nine-tenths of the industries included. Both dictionaries are shortcoming in the English part: no Englishman having been connected with the editing of Karmarsch, and Mr. Tolhausen being a Dutchman. Abbroson—"R. F. K." (Truro).—The present value of the mineral in the fibrous condition would be from 124. to 134, per ton. It is not essential that the fibres should be particularly long. For boiler covering it has been found very useful, from its incombustibility. It may be laid on about 3 in thick, held in position by a coarse canvas or tarpaulin, and bound round with rope or wire. The Germans call it by the names of Bergflachs, Bergwolle, &c, according to its precise structure, but they are all much alike in utility for boiler jacketing.

INSTITUTION OF CIVIL ENGINEERS—"J."—In order to be eligible for membership of the Institution of Civil Engineers you will have to prove to the satisfaction of the Council that you have had the practical control of engineering works, and that you are professionally engaged as an engineer. The associateship can be obtained without such practical experience. In both cases introduction is necessary as a guarantee for the professional standing and acquirements of the canditate, but the admission to ether class involves no insuperable difficulties. Mr. James Forrest, the secretary, will give all particulars upon personal application to him at Great George street.

Certificates of Competency differs somewhat

Mr. James Forrest, the secretary, will give all particulars upon personal application to him at Great George street.

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(Downing Root): Next week—"Snareholder (Wheat Creeor),

IMPORTANT NOTICE—REDUCTION "POSTAGE ON THE "MINING JOURNAL."—In
consequence of the new POSTAL CONVENTION, which came into operation on
July 1, the postage of the Muning Journal to many countries will be reduced to
one fourth. Henceforth the subscription will be 14. 10s. 4d. per annum (39 frs.),
postage included, for the following countries. The amount will, if desired, be
collected at the subscriptor's residence at the end of each year. The subscription
continues until countermanded:—Austria, France, Beigium, Demmark (including
Iceland and the Farce Islands). Expyt, Germany, Gibrathar, Greece, Heligoland,
Italy, Luxemburg, Netherlands, Norway, Portugal (including Madeira and the
Azores), Roumania, Russia, Servia, Sweden, Switzerland, United States, Maita,
Turkey, Morocco, Tunis, and the Canary Islands. Spain 14. 19s. (59 frs.)
TER SUPPREMENTARY SHEET.—We have received occasional complaints, and of

TUREST, ANOTOCO, Runis, and the Canary Islands. Spain R. 198. (50 frs.)
THE SUPPLEMENTARY SHEET.—We have received occasional complaints, and of
late a good many, that the Journal is delivered by country booksellers without
the Supplement. Subscribers would oblige us by demanding that the paper
should be handed to them complete, as every Journal is accompanied by the
Supplement when it leaves our office, and the fault of omission must rest with
the country bookseller or their London agent.

THE MINING JOURNAL,

Railway and Commercial Gazette.

LONDON, JANUARY 1, 1876.

THE EXPLOSION AT SWAITHE MAIN COLLIERY.

THE EXPLOSION AT SWAITHE MAIN COLLIERY.

No great progress, it appears, has been made in clearing the large amount of fallen material caused by the explosion, and so exploring the workings and recovering the other bodies yet remaining. One of the unrecovered is that of AKERS, who on the Saturday took down a 7-ft. drill, and also a considerable quantity of powder from his own house. A good deal of scientific evidence has yet to be given, including that of Mr. WARDELL and Mr. EVANS, the Government Inspectors. But, from "hat was stated on the last day of the enquiry before the adjournment, there does not appear to be any doubt but the sad fatality was the result of shot firing in a mine that was known to give off a great deal of gas, and where there were extensive goafs fully charged with it. The practice of using gunpowder in such places we have frequently condemned, and the ablest engineers who gave evidence now agree with us. But it would have been far better had they one and all made every possible exertion in the matter, and aided the Government Inspector in his crusade against powder. It is quite true the witnesses did not commit them-

been far better had they one and all made every possible exertion in the matter, and aided the Government Inspector in his crusade against powder. It is quite true the witnesses did not commit themselves by saying that shot-firing was the cause of the accident, but they steered very close in that direction. Mr. MILLER, the viewer of the Strafford Main Colliery, who said in the first instance that he did not consider the firing of a shot with the Stephenson lamp was an unsafe process, on being pressed by Mr. MALLE, who appeared on behalf of the Government, said he did not consider it a safe or prudent thing to fire shots whilst the men were in the pit, especially since the explosion at Swaithe. He also said the Barnsley and Silkstone beds were noted for sudden outbursts of gas in some form or other. Surely, then, with such knowledge as to the seams named, it does appear the very height of folly, if not of something a great deal worse, to invite an explosion by the use of powder, which, when exploded, was to all intents and purposes a naked light.

Mr. James Wilson, the manager of the Oaks Collieries, a most experienced viewer, went a good deal further, and said that at his place a shot had not been fired for nine years, so that they went on the principle of preventing the possibility of gas igniting from a shot rather than trying to take means for rendering powder asharmless as human means under such circumstances could do. As to the accident, he gave it as his opinion that the gas ignited in the first goaf, and communicated the flames to the drift. He also considered that before a shot was fired all the men should be out of the pit. He thought it was like leaving safety-lamps in a mine and not locking them where the use of gunpowder was continued in such a mine. It was useless, he continued, locking up the safety-lamps and leaving in the pit a naked light in the shape of powder. Here we have abundant testimony of the hopelessness of any method or system being adopted by which powder can be used with safety or r strongly supported as we were by Mr. WARDELL, not only in his reports but in personal communications with us, we should not now have to deplore the loss of some 150 or 160 lives. We should also like to know whether the majority of the Inspectors who reported during the present year in favour of the use of powder in mines, still adhere to their opinion, and what sacrifice of life, hundreds or thousands more, would be required to lead them to change it? The Home Secretary, we have very little doubt, will not again ask them for an opinion on the subject, but act upon his own, and in the interests of the working miners, ensuring them greater safety than

they at present enjoy by acting in the manner we have pointed out.

There is another matter connected with the explosion at Swaithe
Main which we must revert to. That is the provision to be made
for the widows and children of the men who were killed. It appears that the appeal made to the public has not been responded as it was thought it would be, for the amount of money receive has been very small when compared with what will be required, of 1874, showing an increase this year of 339,219 tons. The com-and is barely sufficient to meet the present pressing wants. The reason for this is obvious, and we pointed it out long ago. At the present time there are large balances held from previous funds, in-in the corresponding period of 1874, showing an increase of 369,881 has been very small when compared with what will be required, cluding 7000% at the Mansion House, and about 3000% sent into West tons this year. The coal traffic of the Philadelphia and Reading de- that, whereas the copper ore sold at the Cornish ticketings in 1875

Yorkshire some eight or nine years ago, being a portion of the Hartley Fund surplus. In addition to that the trustees of the Oaks fund, at Barnsley, wi'l have a balance in hand after claims is met of from 15,000/, to 20,000/. With a full knowledge of these facts it is not surprising to find the public refusing to subscribe until it is known what is to be done with such large sums. There was a meeting of the Mansion House Committee of the Oaks Fund a few days ago, but we have not heard that they sent down immediately, as they might have done, the money in their hands.

The Barnsley trustees have been appealed to, but they appear to see difficulties in the way of parting with any of the money they hold. Where there is no inclination, of course there will always be difficulties; on the other hand, where there was a desire to liberally

see difficulties in the way of parting with any of the money they hold. Where there is no inclination, of course there will always be difficulties; on the other hand, where there was a desire to liberally aid the sufferers, nothing could really be easier. An application by post might easily be made to all the subscribers asking whether they would agree to the surplus being handed over for the benefit of the widows and children of the poor fellows killed at Swaithe. Here is an easy way of getting out of the most serious part of the difficulty. Then as to the amount to be handed over. The services of an actuary might easily be called in, and he would soon tell the sum required to meet all the claims on the fund, and that, and say a couple of thousand pounds more, ought only to be kept in hand. All these surpluses, then, would form a sum sufficiently large to maintain the widows and children. If something like this is not soon done we feel assured that public opinion will indignantly denounce the trustees who have shown so little sympathy for the large body of sufferers at Swaithe, and who appear to hold to the money entrusted to them with as much tenacity as if it were their own. In the meantime the poor people who have lost their husbands and are burdened with families are likely to suffer in consequence, and be dependent on parish relief; in fact, only on Tuesday one of the widows applied to the Barnsley Board of Guardians for relief. A a matter of course many others will quickly follow unless something is immediately done. This we fully believe will not be tolerated, but will raise an amount of indignation against certain persons on the part of the public that will not be easily put down.

TIN AT THE ANTIPODES.

Gold and copper have for some years been worked with more or less success in the Australasian group of colonies; and now tin mining is an industry which appears to be making consider-able progress in the various members of the Australasian group. Queensland, New South Wales, and Tasmania are all well off for tin. From Tasmania the last mail has brought us details of some little interest with regard to the utilisation of the tineres of that the Queensland, New South Wates, and Tasmania are all well off for tin. From Tasmania the last mail has brought us details of some little interest with regard to the utilisation of the tin ores of that at last slightly progressive colony. The tindeposits of the north-west, the north-east, and the east coasts of Tasmania are all being turned to more or less account. At Emu Bay there were at the last dates from Launceston some 200 men at work on a tramway which is being constructed by the Van Diemen's Land Company; and a road as far as Hampshire Hills had been constructed and made passable for teams, so that transport by pack horses—a tedious and costly mode of transit—was expected to be discontinued. The Mount Bischoff Company, we are also informed, had sent down only a few tons of ore, but the company had on hand a large quantity of ore, and was only waiting for the roads to improve before delivering it. The Stanhope Company was proceeding with its furnaces, but was much hampered by bad roads and the necessity of packing everything. At Mount Cameron there were upwards of 100 menat work, without counting those further inland, and at Mount Ringarooma. The principal companies at work were the Prince of Wales, Mount Cameron. Enterprise, Garibaldi, Victoria, Moore's, Campbell's, and Smith's Extended, all of which were considered to have pretty good prospects before them.

At Upper Ringarooma there are likely to be some very rich claims, but at the last dates bad roads, or rather want of roads, was a saddrawback to their development. One company at Upper Ringarooma and the company at Upper Ringarooma and the cameron.

At Upper Ringarooma there are likely to be some very rich claims, but at the last dates bad roads, or rather want of roads, was a sad drawback to their development. One company at Upper Ringarooma—the Globe—had got out 23 tons of ore since July, and on some claims I cwt. per man per day could be obtained. The Launceston and George's Bay Company, at George's Bay, had raised upwards of 7 tons of ore since they started, and their prospects were considered excellent. The total quantity of tin ore purchased by the Mount Bischoff Company up to date was rather more than 67 tons 6 cwts., for which the company had paid 3117. The Mount Bischoff Company had shipped 45 tons of smelted tin in ingots to Melbourne for transhipment to England, and at the last dates the company had about 25 tons on hand. One enterprise—the Tasmanian Tin and General Mining Company—formed to work some sections at George's Bay has not been very successful. The company discontinued operations at the close of August, finding the ore too fine to pay for slucing. An extraordinary meeting was held in October to consider whether the company should be wound-up or whether the shareholders should purchase or amalgamate with some other claim. It was stated at this meeting that three offers of properties had been made to the company—one from the Ringarooma Company, one from a Mr. LITTLE, and one from the Ringarooma Company, one from a Section 1 to them.

The details which we have been summarising are not without conwith regard to them.

The details which we have been summarising are not without con-The details which we have been summarising are not without considerable interest, showing as they do—first, the existence of considerable tin resources in one at least of our Antipodean dependencies; and, secondly, the very considerable difficulties which attend their utilisation. There can be little doubt that New South Wales and Queensland—and probably, also, other parts of Australia proper—are quite as well endowed with tin as Tasmania; and there is equally little doubt that it is no easy matter to turn the minaral resource. are quite as well endowed with tin as Tasmania; and there is equally little doubt that it is no easy matter to turn the mineral resources of all the Australasian colonies to adequate account. Want of labour, want of capital, want of communication—these are the three great difficulties which check tin mining, and which also retard material progress generally, in the Australasian group. The first obstacle can only be removed by time and patience. As regards the second, capital has, no doubt, a tendency to accumulate at the Antipodes; but the outlets opened out for its employment are practically illimitable, so that the supply falls to some extent short of the demand. As regards the third impediment, the value of railways is fully understood and appreciated by our Australian friends, but railways cannot, of course, be made in a day. However, upon the whole, the Australias advance in mining, as they advance in well-nigh every other department of human effort. other department of human effort.

MR. MARK FRYAR, F.G.S.—A telegram from Rangoon announce MR. MARK FRYAR, F.O.S.—A telegram from Rangoon announces that Mr. Mark Fryar, mining engineer to the Indian Government, died in the middle of November, whilst travelling by steamer from Moulmein to Rangoon. Mr. Fryar was an old and valued correspondent of the Mining Journal, and was personally known to many of its readers through his long connection with the mining schools of Bristol and Glasgow. He enjoyed the respect of every student at both of those institutions, and his death will be much regretted the leave represent friends. by a large number of friends.

THE BELGIAN IRON TRADE. - At the last meeting of the Charleroi Association of Ironmasters (Association des Maitres de Forges de Charleroi) it was resolved to establish a special metallurgical journal devoted to the protection of the interests of the trade. The editorship has been entrusted to Mr. Jules Des Essarts, a gentleman well acquainted with the trade, and of considerable literary experience.

COAL AND IRON IN THE UNITED STATES,-The El Dorado Canyon Coal Company has under consideration the construction of a narrow-Coar Company has under construction for construction of a narrow-gauge railway from the mine to Carson, Nevada. The production of anthracite coal in Pennsylvania to Dec. 11 this year amounted to 19.268,977 tons, against 19.217,590 tons in the corresponding period of 1874, showing an increase this year of 51,387 tons. The production of bituminous coal in Pennsylvania to Dec. 11 this year amounted to 3,702,713 tons, against 3,392,219 tons in the corresponding period of 1874 showing an increase this year of 239,219 tons. The company of the corresponding period of 1874 showing an increase this year of 239,219 tons.

clined in the year ending Nov. 30, 1875, to the extent of 843,357 tons, as compared with the year ending Nov. 30, 1874. English rails are quoted in bond at New York at \$35 to \$36 per ton gold; American rails are quoted at the works at \$45 to \$48 per ton currency.

MINING REFORMS IN TURKEY.—The translation of a well considered address from the Mine Adventurers to the Grand Vizier of Turkey is given in a recent number of the "Levant Herald." The nature of the complaints made and remedies suggested will be understood from an article on the subject in another column of this day's Journal.

day's Journal.

IRON WASTE.—Successful efforts have recently been made in America to introduce the process long since turned to good account at Sechshaus, near Vienna. Iron and tin-plate scraps are reconverted into valuable merchantable products. From all tin-plate and soldered articles the tin is first separated, and the iron is subsequently melted into a very high quality of metal. In the course of the process various by-products are obtained, which pay all working expenses, so that the value of the tin and iron is all clear profit.

cess various by-products are obtained, which pay all working expenses, so that the value of the tin and iron is all clear profit.

WIGAN MINING AND MECHANICAL SCHOOL.—A public meeting was held in the Council Chamber, Wigan, on Friday, Dec. 24, Mr. Alfred Hewlett, managing director of the Wigan Coal and Iron Company, in the chair, having for its object the extension of the above-named school in its sphere of usefulness. This school, now in existence 18 years, has been doing valuable work amidst the artizan class of the district, and is one of the most important and successful institutions of the kind in the kingdom. The country being now fully awakened to the necessity of imparting to youth, after elementary education has been completed, technical instruction, to enable our manufacturers to keep pace with foreign competitors in the markets of the world, have for years past experienced the great advantages secured by scientific training to their managers and workpeople. It is proposed to extend the above-named school with all the latest improvements in models, diagrams, specimens, fossils, and chemical apparatus, the teaching of mining geology, mechanics, machine construction and drawing, steam, chemistry, and other kindred sciences by establishing in Wigan suitable buildings (including a laboratory and museum) for the permanent occupation of the classes connected with the school, and for pupils studying art and design. The meeting was a most imporiant one, the whole of the Wigan coal trade being represented, and an executive committee appointed to carry out the objects in view. The cost of the institution it is estimated will not exceed 12,000%, including the site, and the annual outlay required will not, it is expected, exceed 450%, Towards the provision of these funds it is proposed to raise subscriptions under two heads—towards the building fund and towards the yearly expenditure. Already subscriptions have been spontaneously promised to the building fund amounting in the aggregate to 2050%, the promised annu Campbell, of Wigan.

REPORT FROM CORNWALL.

Dec. 30.-The wheel of time has once more come full circle, and we are again on the eve of a departing year, ready to take stock of the past and look forward to the future. The year 1875 brought with it little encouragement for mining enterprise that we should with it little encouragement for mining enterprise that we should profess to regret its close. Nor does it supply us with that confident immediate hope that we could desire. But still it is not all barren, and there is at least one lesson, and that a very important one, which we can draw from it. We now know the very worst that foreign competition can do, and can form a fair idea of what we have to expect in the future. And with that knowledge clearly before us we can confidently say, as the result of past and dearbought experience, that the vitality of Cornish mining is sufficient to enable it to withstand even the severe pressure thus entailed; and that given increased economy in working and production, which in several points means the introduction of improved mechanical appliances and other processes, Cornwall can hold its own still. We are as yet merely in a transition state between the old and the new. are as yet merely in a transition state between the old and the new. Signs of progress are visible in several directions, and we cannot doubt that ere very long the battle of competition in cheapness of production will be fought out by our home mines upon more favour-

production will be fought out by our home mines upon more favourable terms.

When the year opened there was a very confident expectation that a rise in the tin standard was close at hand. There had been no official rise since 0ct. 14, though rather higher prices than the figures named were current; 1874 left the nominal standards at 90% for superior common, and 92% for superior fine. Unlike 1874, the first few days of 1875 redeemed expectation. January had scarcely opened when a rise of 3% was announced, and all seemed fair and hopeful. Surely, it was thought, the tide had turned. But before the month closed there was a recurrence to the old prices, and although at the beginning of February there was a rise of 2%, thereafter drop succeeded drop, until in the first weeks of March the standards stood at 84% and 86%, a fall of 6% as compared with the corresponding period in the previous year. At the end of the month there was a little spurt, caused by a rise of 2%, but it did not last long, for in April there was a corresponding drop. From that time until July matters looked increasingly dull. Then came a drop of 2% to make matters still worse; and, finally, although there was no further reduction in the official quotation, before the end of the month the prices were quoted at 74% and 76%, for no higher terms were to be had. All things considered, tin mining at this juncture was more depressed than it has been daying the present expectation. There prices were quoted at 74. and 76., for no higher terms were to be had. All things considered, tin mining at this juncture was more depressed than it has been during the present generation. There have been lower standards, it is true, but then the outgoings for materials and labour were not so heavy. However, a reaction, fortunately, was not far off. There was an advance of 21. on Aug. 10, and this was speedily followed up by a couple more, so that the standards were mominally raised to 801. and 811., and even 31. or 41. in excess of these amounts were paid. Naturally there was considerable animation in mining circles, and once more it was thought that the better day had dawned. On Sept. 23 the standards were officially put up to 821. and 831., and for a time all went fairly well. But November brought a drop of 41., and December, though the Malayan difficulties had inspired hope, instead of making matters better made them worse; another fall of 21. bringing the standards back to 761. and 771., 22. and 11. respectively only above the lowest point of the 12 months, and 141. and 151. below the prices with which 1875 commenced.

What the new year will have in store for us who can say? He

What the new year will have in store for us who can say? He what the new year will have in store for us who can say? He must be a bold man who would venture to predict, though there is not wanting considerable confidence. So far as we are enabled to judge, the production of tin has fallen off, though probably not to any very material extent. There has been a considerable decrease during the year in the number of mines in work, which were stated in March last by Dr. Foster at 212 in Cornwall and 67 in Devon. Nearly three-fourths of these were worked for tin. Since then a good many have been stopped. So far as we are able to estimate, nearly 50 mines have been avowedly or practically knacked during ar, while the new ventures do not muster a fifth of that number. We do not believe, therefore, that at the present time there are 250 mines at work in the two counties, and as the decrease is chiefly in tin mines there must be some falling off in the yield of that metal. In the middle of the year the monthly produce of black tin was calculated at 1157½ tons. It is not so great now, and we should be surprised if the year's output greatly exceeded 13,000 tons. And then, on the other hand, it must be borne in mind that the quantity of tin consumed is regularly and steadily increasing. We have heard little on the other hand, it must be sorne in mind that the quantity of the consumed is regularly and steadily increasing. We have heard little of stocking during the year, except at Wheal Owles, which closes 1875 with a full hutch and a heavy bankers' debt. The mine is doing well as a mine, but whether the stocking of the tin will pay remains to be seen. Capt. Boyns, however, has been lucky as well as plucky before, and may be again.

so in 1875, the course of the copper standard has been isfactory than that of the tin standard, and a higher far more satisfactory average has been realised. This is shown very clearly by the

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Dolcoath			***	***	4,296	***		2	0	0	***		8592
East Pool		***	***		6,400	***		0	11	8			3650
Glasgow Carad		***			40,000	***	***	0	2	6	***	***	4682
Gunnislake (Cl	itte		***	***	10,240	***		0	4	3	***		2176
Hingston Down	n				18,000	***		0	1	0		***	900
North Busy		***	***		512	***		0	10	0			256
Penhalls			***	***	5,000	***	***	0	6	6			1625
Penstrutha!		***	***	***	43,793		***	0	0	8			1460
South Caradon		***		***	512	***	***	7	0	0	***	***	3584
South Condur					6,123	***		0	10	0		***	3062
Tincroft					6,000	***		1	0	0	***		6000
West Tolgus		***			513	***	***	7	10	0	***		3790
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Wheal Prussia		***		***	6,000	***		0	2	0	***	***	600

able to withstand any assaults, has proved in the great richness of its bottom levels that there is no reason to fear that our mines must fall off in depth.

We cannot say much for lead mining in the district during the year. The one bright spot is the resuscitation of West Chiverton. Old Treburgett no longer retains its place in the Dividend List, and the efforts made to revive Wheal Wrey, Ludcott, and Trelawny have hitherto resulted in more controversy than work. On the Tamar matters are even less lively than they were this time last year, but there does appear a chance of revival in the famous and wealthy Combe Martin district.

So far the expectations held out that Cornwall would become a great iron-producing county have not been realised. There has been a considerable amount of iron ore raised it is true, but only a very small proportion of what might be, especially if the Great Perran lode was developed. The Cornish Consolidated Iron Mines Corporation has been in difficulties—in fact in Chancery—and so far all the efforts made to reconstitute it on a working basis have not had a practical issue. Now, however, we hear that all is arranged, and that ere long operations will be carried on with vigour. May it be so. There can be no question that hitherto the difficulties have not been in the mines themselves, but in the way they have been dealt with.

Special attention has been of necessity directed during the very

be so. There can be no question that hitherto the difficulties have not been in the mines themselves, but in the way they have been dealt with.

Special attention has been of necessity directed during the year to the question of coal supply and consumption, which is of the most serious import in connection with the welfare of mining. When 1874 opened the heavy rains had caused a number of mines to be seriously hampered with water, especially in the neighbourhood of St. Just, and unfortunately just at this time when the demand upon the pumping power of the engines were at their highest coals began to get scarce, consequent upon a succession of heavy gales which delayed the arrival of the colliers. Then when the water was being overmastered, but while the water charges still continued exceptionally heavy, there came the lock-out in Wales, which speedily caused the coal to advance 3s. per ton. This was a very serious matter, especially as no one could foresee how long the struggle would last. Fortunately, the worst forebodings were not realised, and May saw coals down again to 17s. 3d. and 18s. a ton. But the coal question has not the less continued to occupy attention, and Mr. Rule in his advocacy of free dealing as against merchant supplies has kept it prominently forward. The general feeling appears now to be in favour of the plan which Capt. Teague has for some time adopted—the importation of coals by the miners themselves, either singly or in unison. But the time, unfortunately, has not yet arrived for our miners to work together freely in such matters; nor, by the way, has Capt. Teague, jun., yet been enabled to carry out his suggestion that there should be an association of mine managers to discuss matters of mutual benefit. But to return to the coal question. If it is important that coal should be bought as cheaply, quality being considered, as possible, it is equally important, to say the least, that they should be economically used; hence considerable attention has been paid to the character and performa

whether they would prove pecuniarily remunerative. At New Great Consols it is claimed that this has been distinctly shown to be the case.

And this leads us to speak of the arsenic trade, which has been remarkably developed during the year. Indeed, the great increase is in the demand for, and value of, arsenic has been one of the most cheering features of the twelvemonth. Early in the spring, when the tin had fairly entered upon its downward course, arsenic ran upon several pounds, and thus to some extent helped to counteract the depression in the main article of produce. Practically, the whole of the arsenic which is produced in the kingdom comes from Devon and Cornwall—a considerable quantity from the Camborne and Illogan district, but by far the largest proportion from Gunnislake and its neighbourhood, where the largest arsenic works, not only in England, but in the world, are—those of the Devon Great Consols. The prominent position which arsenic has thus taken, and the fact that the two counties can furnish what is practically an in exhaustible supply is one of the most cheering features of the year.

Early in January special attention was directed to this large production of arsenic, and some little alarm caused to the public—needless of ar as they were concerned—by the discovery of a diabolical attempt to poison the employees of the West of England Chemical Works, near Gunnislake, by throwing a quantity of arsenic into the water-tank from which they drank. Some scores were more or less affected, and the wildest excitement for the time prevailed, but, happily, no one died. It was clear that the arsenic could not have found its way into the tank by accident, but nothing was ever discovered of the perpetrator, though there were very grave suspicions. Of accidents proper there have been enforced by the Government of the Mines Regulation Act have been enforced by the Government of the Mines Regulation Act have been enforced by the Government of the Mines Regulation Act have been enforced by the Government of t

which have contributed to the marked decline of duty, for which neither the engines nor the enginemen can be held responsible. But there are others that should not exist, and we are glad to know that Mr. Basset has led the way in a thorough examination of the engines on the mines of which he is lord.

The china clay trade has had its period of depression. In July the prices of the inferior qualities had dropped from Ids. and Ifs. per ton to 12s. and 13s., and, as a consequence, an attempt was made by the employers to reduce wages. This led to a strike, and in the neighbourhood of St. Austell there were serious apprehensions and disturbances. However, happily these were averted by judicious action, and the masters having given way the men went to work again, not, however, before they had formed a Clayworkers' Union. During the year machinery has been introduced for grinding the chima-stone, which is then sent away in barrels, like the superior sorts of clay.

In the absence of any great Government or public works in hand the granite trade of the district has been quiet, though in the course of natural development a good deal of business has been done, and Cornish granite now finds its way to every part of the world, even to the new docks at Bombay, the foundation stone of which the side in Mr. W. J. Henwood, F.R.S., F.G.S., the highest scientific circles on metalliferous mining, a gentleman who had studied the phenomen on the engines on metalliferous mining, a gentleman who had studied the phenomen of metalliferous mining, a gentleman who had studied the phenomen on the scientific circles of every civilised country. Si Goldsworthy Gurney, whose labours in connection with the steam-blast made him noted, died at his residence near Bude at a very advanced age. We have lost also the leave lost also t

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THE JOURNAL The coal trade is quiet. Prices unchanged. Coke keeps firm, at 12s. to 13s. for best furnace sorts.

CO-OPERATIVE IRONMAKING.—The North of England Industrial Iron and Coal Company (Limited) half-yearly report was issued to the shareholders on Thursday. Several co-operative societies are large shareholders in the undertaking, which has blast furnaces and rotary puddling furnaces at Carlton, near Stockton; coal mines at East Howle, in the county of Durham, and ironstone mines at Ailesbury, in Cleveland. The directors regret being unable to report any improvement in the general condition of the iron and coal trades during the past six months. The impossibility of realising remunerative prices for malleable iron in the present state of trade has led them to a temporary suspension of operations at the forge in Carlton Ironworks; and, although the experience recently gained has not been free from some additional loss, it has strengthened their confidence in the ultimate success of the system (Crampton's) of mechanical puddling which they have adopted. The blast furnaces have worked regularly, and a small profit has accrued. At the collieries the Brockwell seam of excellent quality coal is reached by a new shaft, and the thickness—above 4 ft.—is greater than anticipated, exclusive of the top splint coal. At the Hutton Pit the output exceeds 400 tons daily, with increasing demand at fairly remunerative prices, and arrangements are in progress for providing the increased number of houses needed for the complete development of the new undertakings of the company. Some capital had been sacrificed by abandoning the South Belmont Ironstone Mines in Cleveland, but more serious and continuous loss is thereby avoided, and they corsider the sacrifice in a great measure made up by value of the lease of Ailesbury Ironstone Mines, which continue to give a profitable return upon the capital invested. In conclusion, the directors regret the present precarious state of trade will not allow them to recommend an interim dividend on pre

REPORT FROM DERBYSHIRE AND YORKSHIRE.

REPORT FROM DERBYSHIRE AND YORKSHIRE.

Dec. 30.—There is little to report as to the state of trade, for the very good reason that comparatively little has been done during the week so far, owing to the holidays. There is, however, little doubt but there are now sufficient orders in hand to keep the works fully employed. At some of the colleries a fair tonage of coal has been raised, but not up to the average. This, however, will not be any inconvenience, seeing that the mild weather prevailing will make a material difference in the consumption of house coal; and, should it continue, the London consumers in particular would be greatly benefited, for prices must come down. In Sheffield it is not likely that work will at many places be resumed during the week, for not only will the men generally have a week or ten days holiday, but advantage is taken of their absence for the repairing of the machinery and putting down new plant. In South Yorkshire the great event of the week has been the funeral of Mr. John Normansell, the secretary of the South Yorkshire Miners' Association, who was highly respected by all classes, and whose remains were followed to the grave by a vast concourse. An affecting oration at the grave side was made by Mr. Macdonald, M.P. On Monday another body was recovered from the Swaithe Main Collery, bringing the number of bodies to 138. There are several more, however, still in the workings.

REPORT FROM THE FOREST OF DEAN.

Dec. 29.—As some weeks have passed since anything from here appeared in the Journal, a few lines may be acceptable. Little alteration in the quotation of prices has occurred in this district for a considerable period, if we except one or two reported rises in the price of coal at a colliery or two, which reports, however, did not appear trustworthy, as they were made public by interested parties. A section of Unionists has been agitating for a rise of 2s, per ton through the district upon coal, to be accompanied by a 10 per cent. rise in wages; but success is extremely dou'sful. Columsters, observing the general condition of the country, do not consider that the prospects of the markets would justify any such step at present. The local coal trade, however, is just now and has been for some little time past in an active condition, although its continuance in similar activity is by no means certain.

nection with the steam-blast made him noted, died at his residence near Bude at a very advanced age. We have lost also the late Vice-Warden of the Stannaries, Sir Edward Smirke, who was well known in legal circles, and as an antiquary. Death has likewise carried off Mr. Tregonning, well known as the managing partner of the Bissoe Smelting Works. Mr. James Dennis, of Mangotham House, Redruth, died suddenly whilst at dinner the day before he was to have presided at East Pool account. Mr. W. Shilson, of Tremough, is also among our losses.

The Cornwall Minerals Railway has not had a very lively time. A great deal of china-clay has been carried, seriously to the damage of the traffic of the Cornwall line; but, in default of the large quantities of iron ore expected from the Perran Mines, the traffic has not been at all what was anticipated. The future of these mines. Not entirely, however, for some time in the coming year

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ourse of a few years the concern should be "fat and flourishing," to the joy district.

the course of a few years the concern should be "fat and flourishing," to the joy of the district.

A visit of the manager (Mr. Jarrett) to Staffordshire, to see how the world went round there, led to the introduction of the improved method already specified. And so striking are the advantages that the Forest Crawshays, observant thereof, intend adopting the same at Park End and Cinderford as soon as may be convenient. If this change should be effected the advantages even in a sanatory point of view will be immense to the surrounding populations, as, by economising the waste gases, and carrying the residuum into the sky at a great attitude, it will relieve the people living adjacent and around of what at present is a very great nuisance and annoyance. The system simply adopts a natural law, and what we saw at Sewdley very much confirmed us in an opinion which we have long held—that many, the great majority, of smoky habitations arise from the fact that the chimneys are not erected sufficiently high to invite the natural law into play and effectiveness. As labour has risen so much in value we must look more for science to devise methods to cheapen the cost of production in manufactures. The system was partially tried years ago at Park End, and proved a failure. Next time it will be a success. If science is taken more fully into partnership an advance in property will be secured thereby. We are pleased to know that High Meadow Mines, purchased by Mr. E. Crawshay, contain liberal supplies of rich ore. The tin-plate works at Lydney and Lybrook have submitted to an inevitable reduction in wages. Other Forest works remain nearly in statu quo.

REPORT FROM MONMOUTHSHIRE AND SOUTH WALES.

REPORT FROM MONMOUTHSHIRE AND SOUTH WALES.

Dec. 30.—So far as can be seen the hopes of a change for the better in the Iron Trade held out last week have been confirmed by subsequent events. The Christmas holidays having intervened, however, business has been more or less suspended throughout the district, and of course the usual attention has not been paid to the course of trade. But the new year is anxiously looked forward to as likely to bring with it a different state of things from the present. In regard to some branches of manufacture there is already decided improvement, but it does not yet extend to the finished iron trade, and more especially not to the rail trade, upon which this district more particularly depends. A few weeks will probably enable makers to see more clearly what is in store for them, and it is sincerely to be hoped a more prosperous state of things is at last beginning to dawn upon the district.

The resolutions which were come to in regard to the failure of Messrs. Fothergill and Hankey, the proprietors of the Aberdare and Plymouth Iron and Coal Works, have been confirmed in the London Court of Bankruptcy. The object of the resolutions in question was to preserve the business from disintegration by making it over to a company in which the creditors were to take debentures, and the mortgagees to postpone their rights for a certain period. It was hoped that in the end the whole of the creditors would be paid out of the profits of the concern.

There are some slight signs of improvement in the Tin-plate trade, but altogether business continues very dull, and but slightly more active than it was in the beginning of the year.

of the profits of the concern.

There are some slight signs of improvement in the Tin-plate trade, but altogether business continues very dull, and but slightly more active than it was in the beginning of the year.

Little that is new can be reported in regard to the Coal, Trade. Few transactions have been entered into during the week, and little work done at the collieries, owing, of course, to the festive season. The week may, in fact, be regarded almost as an entire holiday. An important fact, however, to record in connection with the trade is the award of the Conciliation Board. The terms are liberal, and will no doubt be readily adopted by the men. They are, briefly, as follows:—1. The minimum wages is to be fixed 5 per cent. above the rate paid in 1889, and the standards to be—For the steam coal collieries the cutting price of the upper 4 ft. seam in the Aberdare Valley to be the standard; for the bituminous collieries of Monmouthshire and the Caerphilly district, the cutting price of the Waynddisllwyn seam and the Tillery seam to be the standard; for the bituminous collieries of Giamorganshire, which includes all the collieries of the Neath and Swansea district, with the exception of the Cross Hands, California, Cawdor, and Hendre-forgan Collieries, the cutting price of No. 3 Rhonddu seam to be the standard.

2. The minimum standard wages to be paid on 12s. per ton for No. 3 Rhonddu —3. The minimum to include all extra cost of living and getting coal.—4. The rate to be fixed for periods of six months from Jan. 1; an advance of 7.5 per cent, in wages for periods of six months from Jan. 1; an advance of 7.5 per cent, in wages for periods of six months from Jan. 1; an advance of 7.5 per cent, in wages for every shilling advance in the price of coal from the minimum 12s. and 11s. up to 21s. and 20s.—5. The average selling prices fo.b. at Cardiff, Newport, and Swansea in November and December to determine the wages to be paid in the next six months. Books to be examined for fixing the rates for subsequent hal

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

Dec. 30 .- An intimation has been given this week by the colliers Dec. 30.—An intimation has been given this week by the colliers on the Dudley side of the district of their intention to give notice for an advance of 1s. per day in the wages of thick-coal men, and of 6d. per day in the wages of thin-coal men, on the allegation that "the advance asked is justified by the condition of the trade." The intimation has come upon the coalowners as a surprise; and although it is highly improbable that a demand so extrordinary will be conceded, the course taken has already had the effect of disorganising business alike in the coal and iron trades of the district. The it is highly improbable that a demand so extrordinary will be conceded, the course taken has already had the effect of disorganising business alike in the coal and iron trades of the district. The standard rate for coal in South Staffordshire are already is, to 2s, per ton in excess of those ruling on Quarter-day, and the further advance which the wages concession asked for would involve would raise the standard to a point which would impart a most serious check to business. The result of the action adopted by the miners remains to be seen. Local ironstone continues in steady demand, and the rates are well supported.

In consequence of the holidays, we have little to report this week in the Iron Trade. The mills and forges of South Staffordshire remain closed, and few of them will resume operations before Tuesday or Wednesday next. The trade is in a very disorganised state, although prices have increased in firmness, owing to the unsettled condition of the market for fuel. There is an impression that a declared advance in the rates for iron will take place on Quarter-day, but nothing positive on the subject can at present be known.

The following were included in to-day's quotations on the Birmingham Stock Exchange:—Cannock and Huntington Colliery, 2½ prem.; East Cannock Colliery, 100 prem.; Hamstead Colliery, 22 prem.; East Cannock Colliery, 100 prem.; Hamstead Colliery, par, seellers; Pellsall Coal and Iron, 4 dis., sellers.

The North Staffordshire Coal and Iron Trades are without alteration this week, the Christmas holidays having put a complete stop to business. Diverse opinions are current as to what will be done

tion this week, the Christmas holidays having put a complete stop to business. Diverse opinions are current as to what will be done with regard to the course of prices on Quarter-day, but the proba-bility is that whatever action is taken will not be fully decided until it is known definitely what course will be taken by the ironmasters in the southern part of the county.

PROCEEDINGS UNDER THE MINES REGULATION ACT.—At Sedgely Police Court, on Thursday—before Messrs. W. H. Rogers and F. A. Homer, Mr. Wm. North, of Dixon's Green, Dudley, being, on Oct. 5, the manager of the Ramrod Hall Colliery, Oldbury, was charged with neglecting to observe the 1st and 5th general rules of the Mines Regulation Act.—Mr. Joseph Baker, charter-master of the same colliery, was also charged with failing, on the same date, to observe the 23nd special rule. A similar charge was also heard against Mr. Thos. Woodall, overman in the said colliery. Mr. Joseph Baker was also summoned for an infringement of the second general rule, and for neglecting to observe the 28th special rule and the 29th general rule. The same defendent was also summoned for an infringement of the 32nd special rule in force at the said colliery, which provides that if the mine at any time is found to be in a dangerous state he shall withdraw the workmen from the mine, or such part thereof, and the competent person "appointed for the purpose shall immediately inspect the same," &c., on Sept. 28. In the next case Mr. Baker was charged with neglecting to observe the 59th general rule of the same Act, also of the 3rd general rule.—air. Joseph Aston, Burnt Tree Colliery, Tipton, was also charged that on Aug. 24 he neglected to observe the 59th general rule of the Mines Regulation Act, which provides that a competent person shall once in 24 hours examine the state of the external machinery. The above sum monaces were taken out at the instance of Mr. J. P. Baker, Government Inspector, attention having been called to the management of the mines through an explosion which resulted in fatal consequences, about two months ago. Mr. T. Walker, solicitor, Wolverhampton, proceduced, and Mr. Underhill defended Mr. North. All the defendanta pleaded guilty, and expressed regret, and the evidence was formal. The Bench inflicted the following fines:—Mr. North 10/ for each of his offences and expenses: Mr. Jaker, three everal fines of 48s. and costs; and

CANNOCK AND HUNTINGTON COLLIERY COMPANY,

The directors have issued the following report to the shareholders: The directors desire at the close of the year to lay before the shareholders the llowing statement, which they trust will be deemed satisfactory as regards the

they lie there at a less depth than had by some mining authorities been at first

they lie there at a less depth than had by some mining authorities been at first conjectured.

To prove the actual existence and depth of the "deep coal" by boring would have entailed on the company a very heavy outlay, and a further indefinite delay in the prosecution of their works. The directors, therefore, after carefully considering the circumstances with their engineers, determined to discontinue the boring, and to make preparations for sinking with as little delay as possible.

As the boring had shown the existence of a greater quantity of water in the upper beds to be passed through than in any other sinking in the district, the directors deamed the circumstances under which the works were to be undertaken as exceptional, and requiring the most careful consideration before their commencement.

Among the various plans for sinking through water-bearing strata, which were submitted to the board, was that known as the Kind-Chaudron method, being one that has to a great extent been adopted in Belgium and France. This plan, which seems to have great advantages from the absence of uncertainty in its operation, appeared to offer to the company, at no greater than the ordinary cost, the prospect of overcoming with facility the very serious difficulties which must be encountered in sinking in water-bearing strata of such a nature as that existing at Huntington. The directors, therefore, after having satisfied themselves by personally inspecting various pits in course of sinking in Belgium and France, of the feasibility of the plan, and acting in consultation with their engineers, opened negociation with Mons. Chaudron, proprictor of the patent rights for this mode of sinking in England.

These negociations have been concluded, and a contract has been entered into, which, while securing to the company the advantage of the superinendence and direction of Mons. Chaudron, his engineers and necessary workmen, leaves the control of the whole of the expense of the sinking in the hands of the company. The contract also c

THE SCOTCH MINING SHARE MARKET-WEEKLY REPORT AND LIST OF PRICES.

Owing to the holiday season now set in, the market has since my last report been idle, and movements in prices generally unimportant. In shares of iron and coal concerns, Bolckow Vaughan, B, shows a good advance at 44 to 45; West Cumberland Iron and Steel is again higher, at 14, buyers; Consett Iron Ore also in demand at 19½; Glasgow Port Washington (all paid) has advanced ½; and ditto prepaid, ½; Benhar (all paid) is ½, Ebbw Vale, ½, and Omoa and Cleland, 1s.—all lower per share. Cairntable and Monkland, preference, are now quoted ex div. In shares of copper concerns (foreign) Tharsis is lower; while Cape is ½ higher, and Huntington, ½. In shares of home undertakings prices are:—Bedford United, 1½, sellers; Gunnislake (Clitters), 63s., sellers; Marke Valley, 3 9-16ths, sellers; New Pembroks, ½, sellers; South Crofty, 15½, buyers; West Esgair Lle, ½, sellers; West Maria, 6s., sellers; Wheal Basset rose at 20 to 25. In shares of gold and silver mines, Emma is 1s. 6d. up per share, and Richmond ½. Frontino and Bolivia continues in demand at 35., but no transactions have taken place for want of sellers. Exchequer lower, at ½ to ½. South Aurora, 5s. 6d., and Tecoma, 5s., both buyers. In shares of oil companies Young's Paraffin are now quoted ex div., and show a shelp ireaction after the late good rise. Miscellaneous generally higher, but no important dealings. Milner's Safe quoted 10½ to 10½ ex div., and Newcastle Chemical, 3½ dis., buyers. The Bank rate of discount has to-day been raised 1 per cent.—namely, to 4 per cent, from 3, at which it has stood since the 18th ult. A detailed list of the several days' business follows:—

On Wennespar last a good business was done. Benhar, Il to Il ½: new shares. Owing to the holiday season now set in, the market has since my

which it has stood since the 18th ult. A detailed list of the several days' business follows:—
On Wednesday last a good business was done. Benhar, 11 to 11½: new shares, 6½ to 6½. Emma done at 24s., closing 24s. to 25s., Glasgow Cara'on done at 1½, closing, to 6½. Gunnislake Clitters), 61s., sellers. Huntington done from 25s. to 26s., closing 25s. 61. to 25s. 61. Marbella, 75s. to 7ss. Marke Valley, 3½ to 3½. Monkland, 59s. to 52s.; Omoa and Cleland done at 54s. and 53s., closing 53s. 3d. to 54s. 64. Rehmond done from 7½ to 7½, closing at those prices. Tharsis opened at 22, declined to 21½, closing firmer, 21½ to 21½; new shares, 14½ to 14½. Uphall Oil done at 5. Young's Paraffin, 8½ to 8½. Scottish Wagon done at 10½.
Henvilogron Copper and Sulphure Company (Limited).—An

HUNTINGTON COPPER AND SULPHUR COMPANY (Limited) .-- An extraordinary general meeting of shareholders was held to-day (Wednesday). Resolutions were passed—1. Confirming the appointment of the committee of investigation appointed at the adjourned general of the committee of investigation appointed at the adjourned general meeting on July 30 last, and re-appointing the same a committee of investigation, with powers, as before, to add to their numbers, and take such professional advice as they thought proper; and, 2. Approving and adopting the report of the committee on the affairs and accounts of the company, and the procedure for the recovery of promotion money, bonuses, &c., received by Mr. Wm. Henderson and others in connection with the formation of the company or otherwise. The five gentlemen recommended by the directors were elected directors. The Chairman of the committee of investigation, in reviewing the work of the committee and their report, said the professional assistance they had got had cost them nearly the whole of the expenses in the matter, which are much below what was expected. The accounts on the other side are 120,, and those on this side are expected to be under that sum. The personal expenses of the committee will not exceed 10. He gave several instances showing how the interests of the concern have been sacrificed in the past by the grossest mismanagement of its many highly paid officials. It would appear that it could not possibly have been worse. In regard to the lawwit pending against Mr. Henderson, he said he had fully considered it, and is confident the company shall gain it. He should not be inclined to accept 19s. in 17. to settle it, if offered, so little doubt had he of the company's success.

On THURSDAY last a fair business was done. Benhar, 11 to 11%. New shares

ered it, and is confident the company shall gain it. He should not be inclined to accept 19s. in 1t. to settle it, if offered, so little doubt had he of the company's accept 19s. in 1t. to settle it, if offered, so little doubt had he of the company's construction of the company's settle of the company's acceptance of the company's settle of the company's acceptance of the company's settle of the company's construction of the company's company is constructed by company is constructed by company is unable to declare any construction of the company has constructed by company is unable to declare any construction of the company has constructed by company is unable to declare any construction of the company has constructed by company is unable to declare any construction of the company has constructed by company is unable to declare any construction of the company has declared a divident of the confidence of the company has declared a divident of the confidence of the company has declared a divident of the confidence of the confidence of the company has declared a divident of the confidence of the confidence of the confidence of the company has declared a dividence of the confidence of the confidence

The following are this week's prices of some stocks, shares, &c. casionally dealt in on this market, but not quoted (with few ex position and prospects of the company:— From, Steed and Coal Company is a coasionally dealt in on this market, but not quoted (with few experience) the last general meeting the Diamond Rock Boring Company have discontinued their boring operations, having attained a depth of 218 yards 10 in.

The result of the boring, as will be seen by the accompanying letter of Messrs.

Rorth and Soc, the company's engineers, appears to show that the known measures of the Cannock coal field exist underneath the land leased to the company, and that

sett Iron Ore, 20¼; Gauley Kanawha Coal, 5, sellers; Great Western Colliery, 11½ to 12: Gellydeg Colliery pref., 9, sellers: Ifton Rhyn Colliery, ½ to 1: Lehigh and Wilkes Barre 8 per cent. first mortgage, guaranteed by Central Railroad of New Jersey (U.S.), 92 to 94; Lilyuvi, Tondu, and Ogmorn Coal and Iron, 23½ to 2½;; Lilyuvi Valley Colliery, pref., 9, sellers; Mersey Steel and Iron, 4½ to 5; Mwyndy Iron Ore, 2; Newport Aberearn Colliery, ½ to 15: North Lonsdale Iron and Steel, 6 to 5 dis.; Powell's Liantwit Colliery, ½ to 1½; Scottish Australian new shares, ¼ to 3½; Uverstone Mining, 10½ to 11: West Cumberland Iron and Steel, 14: Whitehaven Iron, 3½.—Copper, Lead, Tin, &c., Companies: Bedford United, 1½ to 19½; Bensberg Lead, 3½ to 4: Bowden Hill Manganese, 5½, sellers; Cook's Kitchen, 6 to 6½; Copiapo Mining, 3¾; Denbigh Consols, 2, sellers: Dol. cooth, 37 to 39; Drake Walls, ½, sellers; Great Laxey, 15½ to 16; Great West Grenville, 1s. 6d., sellers; Elgar, 1, sellers; Great Laxey, 15½ to 16; Great West Van, ½ to 1½; Gunnisalek (Clitters), 5 to 3¾; Hingston Down, ¼ to 1½; Killifreth, ¾; Old Talargoch Lead preference, 10, sellers: Marke Valley, 3½ to 3¾; New Consols, 1½, sellers; New Pembroke, ¾, sellers; New Quebrada, 4; North Hendre Lead, 3 to 4; Parvs Mountain, ½ to ½; Fenstruthal, 9s. to 11s; Prince of Wales, ½ to ½; Pylmilmmon Lead, ½; Rio Tinto, 6½; Snowbrook, 5, sellers; South Condurrow, 5½ to 5¾; South Roskear, 1½, sellers; New Quebrada, 4; North Hendre Lead, 3 to 4; Parvs Mountain, ½ to ½; Fenstruthal, 9s. to 11s; Prince of Wales, ½ to ½; Swellers; West Marla and Fortescue, 6s., sellers; West Policie, 24: West Wheal Frances, 8½ to 9½; Sheal Basset, 24 to 25; Wheal Kitty (8t. Agnes), 3½ to 3¾; Mary Hutchings, ½; Yorke Peninsula 15 per cent. guaranteed preference, ½ to ¾; Yorkehire Mining, 3-liths to ¼—Gold and Silver Companies: Almada and Tirito, ½ to ¾; Argentine, 6½, to 12; Australasian Mines Investment, ½ to ½; Sheal-shire Mining, 3-liths to ½; Swetland Creek, 2½ to 2½; Don Pedro North del Rey, ½ sett Iron Ore, 20¼; Gauley Kanawha Coal, 5, sellers; Great Western Colliery, 11½ to 12; Gellydeg Colliery pref., 9, sellers; Ifton Rhyn Colliery, ½ to 1; Lehigh and Wilkes Barre 6 per cent. first mortgage, guaranteed by Central Railroad of and Wilkes Barre 6 per cent. first mortgage, guaranteed by Central Railroad of the Colliery Coal and Transparence of the Control of the Control Coal and Transparence of the Control of th

(api	tal.		D	ivid	ends		
_				Rat	e pe	r cei	nt. Description of shares.	
Per		Pai				num		Last
share		up.	P	revio				price.
£ 10	***	£6		£10		£10	Arniston Coal (Limited)	7
10		10		14		9	Benhar Coal (Limited)	11%
10	***	- 6	***	14	***	9	Ditto	61/2
100	***	35		1214	t	125	Bolckow, Vaughan, and Co. (Lim,)A.	4714
10		10	***	10	0.00	10	Cairntable Gas Coal (Limited)	91/2
10		10		5		nil	Chillington Iron (Limited)	5
32	***	29	***	7		36	t Ebbw Vale Steel, Iron, and Coal (Lim.)	1354
10	***	4		nil	***	nil		4
10	***	10	***	-	***	-	Glasgow Port Washington Iron & Coal (L)	4
10		10	***	-	***	-	Ditto Prepaid	4
10	***	10	***	-		-	Lochore and Capledrae (Limited)	51/4
10		10	5	8 7d	f	5	Marbella Iron Ore (Limited)	78s.
10		10		5		nil	Monkland Iron and Coal (Limited)	216
10		10		7		7	Ditto Guaranteed Preference	5%
100		100	100	nil		nil	Nant-y-Glo & Blaina Ironworks pref. (L)	321/2
10	***	4	***	15	***			23/4
1	***	ī	***	15	***		Scottish Australian Mining (Limited)	11/2
50	***	50		10		5	Shotts Iron	65
10	***	8		10		5	Ditto New, issued at 21/2 prem.	8
	***							9
							COPPER, SULPHUR, TIN.	
10		7	***	-		-	Canadian Copper Pyrites (Limited)	294.
10		10		-		-	Ditto All paid	634
10	***	7		20s		20s	Cape Copper (Limited)	88
2	***	2		_		_	Dunsley Wheal Phoenix Tin (Limited)	28.
ī	***	1	***	123		121	Glasgow Caradon Copper Mining (Lim.).	134
î	***	159.		129	2	125	Ditto New	21s. 6d.
10	***	9	***		2	5		25s. 6d.
258.		23s.		-		_	Kapunda Mining (Limited)	
4	***	4				_	Paugleillo Copper (Limited)	133
10		10	***	nil	***	nil	Russian Copper (Limited)	134
10	***	10		25	* * *	25	Tharsis Copper and Sulphur (Limited)	31/4
10	***	7		25		25	Ditto New	2134
	***	i	***	20		20		161/2
1			***	-		_	Yorke Peninsula Mining (Limited)	34
							GOLD, SILVER.	
20		20		-		_	Emma Silver Mining (Limited)	134
10	***	10		-	***	-	Flagstaff Silver Mining (Limited)	174
5	***	5	***	-		_	Last Chance Silver Mining (Limited)	34
	***	5		_	***	35	Richmond Mining (Limited)	73/
	***					00		734
							OIL.	
10		7		24	ś	5	Dalmeny Oil (Limited)	514
10		10				-	Uphall Mineral Oil (Limited)	8
10	***	834		5		5	Young's Paraffin Light & Mineral Oil (L)	73%
10	000	0/3			***		Todak e rasann night a minerar on (1)	178
							MISCELLANEOUS.	
50		25	***	16		16	London and Glasgow Engineering & Iron	
00		20	400	20		**	Shipbuilding (Limited)	21
20		1134		_		_	Peruvian Nitrate (Limited)	11%
10		10		8		5	Scottish Wagon (Limited)	1056
10	***	4		8	***	5	Ditto New	
10		•	***		nter		Ditto New	41/8
		1	ast	dev	FOR	T.D. IM	account Jan 10 · settling day Jan 13	

Last day for this account Jan. 10; settling day, Jan. 13.

Note.—The above list of mines and auxiliary associations is as full as can be ascertained, Scotch companies only being inserted, or those in which Scotch investors are interested. In the event of any being omitted, and parties desiring a quotation for them and such information as can be ascertained from time to time to be inserted in this list, they will be good enough to communicate the name of the company, with any other particulars as full as possible.

J. Grant Maclean, Stock and Share Broker.

Post Office Buildings, Stirling, Dec. 3).

WEST CUMBERLAND IRON AND COAL.—The position of the pig iron trade in the western division of the county has not undergone any great change since our last report; but it is satisfactory to state that the firmness which has been exhibited for some time state that the firmness which has been exhibited for some time past is still maintained. Manufacturers continue to receive many enquiries, principally from home buyers, who are anxious for quantities to be delivered over 1878, but, except in a few instances, these enquiries do not result in actual business, as makers are averse to selling for so long a period at the present low rates, which leave very little profit. Prices are now nominally based on 77s. 6d. per ton for No. 1 Bessemer, and sales have been made at this rate, but for large quantities somewhat lower prices are taken. The Welsh demand continues good, and shows no sign of cessation. It would appear that the hematite qualities are again asserting their supremacy in that district, from which they have been partly excluded by other brands. Iron ore proprietors are pretty well sold forward, and are chary of selling large quantities for forward delivery. Most of the mineowners are quoting and obtaining higher prices. Coke is firm at late rates, and is not likely to be reduced further. The demand for bar iron is improving, and the mills have secured work for a short time in advance. There is a pretty active demand for coal, but prices manifest so improvement.

MANUFACTURE OF COKE.

An improved form of coke oven, which is claimed to produce about 25 per cent. more coke, and to effect more than 50 per cent. saving in the cost of labour, has recently been introduced by Messrs. in the cost of labour, has recently been introduced by Mesers. McLanahan, Stone, and Bayley, of Holidaysburg, Pennsylvania, and has given great satisfaction. The ovens are 36 in. wide, 7 ft. high, and 22 ft. long, and present the appearance of a succession of arcades, closed at each end with iron doors. The ovens are surrounded on the two sides and bottom with combustion chambers, in which the volatile matter is burned as it passes away from the coal that is being coked in the ovens. The burning of this gas maintains a high and certain heat sufficient to coke the coal. It is claimed that the loss of carbon usual in coking coal in pits or hear claimed that the loss of carbon usual in coking coal in pits or beeclaimed that the loss of carbon usual in coking coal in pits or bee-hive overs is avoided, the waste gases being utilised to supply the heat for coking. There is a great saving in the new ovens in the small amount of labour required to discharge the coke and re-fill the ovens with fresh coal, not more than ten minutes being required for the entire operation.

The ovens are charged by means of hopper-filling trucks, which run on rails above the ovens. Each oven has two filling holes, so that the coal may be properly distributed in the oven. The discharge is effected by a powerful steam ram, which moves to and fro in front of the ovens on a suitable railway. At the end of a long rack is a head, which fits the oven; this is pushed through the oven by aid of powerful gearing, and expels the coke from the door oven by and of powering gearing, and expense the code from the door at the opposite end, the coke being left on the cooling ground on the other side of the oven; the ram is then withdrawn, the door closed, covers taken from the filling holes, and coal dropped in before the oven has had time to cool. The charge of an oven is about 8 tons, and in 72'hours this charge is coked, producing 6 tons in coke; the cost of labour is about 1s. 6d. per tonof coke produced; this is a yield from the coal of 75 per cent., and careful experiments have about that coal from the same mine coked in riths and here have shown that coal from the same mine coked in pits and heehave shown that coal from the same mine coked in pits and see hive overs during the most favourable weather yielded but 60 per cent. from the coal at a cost for labour of 3s. per ton of coke. Taking the year round, however, the pits and beehive overs yielded but 50 per cent from the coal. The coal in Jackson and Vintor county. Ohio, although existing in great quantities, has until recently been

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considered unfit for iron smelting, and it is through the application of modern improvements in the way of crushing and washing the coal then coking it that the great and beneficial result had accrued.

DYNAMITE.

of modern improvements in the way of crushing and washing the coal then coking it that the great and beneficial result had accrued.

DYNAMITE.

It has unfortunately come to be accepted as a matter of fact that dynamite was the explosive used by Thomassen for his infernal machine. There is not as yet, and probably there may never be, any evidence to show what the particular explosive was; but there are several reasons which lead to the conviction that it could not have been dynamite. It might have been gunpowder for all that has been proved to the contrary. The induction of facts, however, leads distinctly to the conclusion that the explosive substance must have been introglycerine. It is stated to have been contained in tin cases; Nitroglycerine, being a slight, spenerally transit stated that Thomassen purchased this capture of the contrary. The induction of the contrary of the conditions under which it exploses the conditions under which it exploses the conditions of the contrary of the conditions under which it will not explose the conditions under which it will not explose the property of the conditions under which it will not explose have been absolutely ascertained. It will not do so by consension. A fall such as that of the hose at Berneral to dynamite, the conditions under which it will not explose have been absolutely ascertained. It will not do so by consension. A fall such as that of the hose at Berneral to dynamite, the conditions under which it will not explose the property of the condition of the cap of particularly high power, or when it is heated up to 55°. The action of the cap or detonator has never been thoroughly defined; but it is understood that sprike of great the propriety of using a percussion cap. It exist that this great being against the propriety of using a percussion cap. It is that this great being against the propriety of using a percussion cap. It is that this great being a condition of the propriety of using a percussion of fame that Mr. Nobel, the inventor, and at the only inte

TO ENGINEERS, AND OTHERS.

THE DIRECTORS OF THE ROCHESTER, CHATHAM, AND STROOD GASLIGHT COMPANY OFFER a PREMIUM of ONE HUNDRED POUNDS for the BEST DESIGN, with all necessary working drawings, for UNLOADING COALS from STEAM COLLIERS and SALLING VESSELS at their works at ROCHESTER.

Lithographic plans, showing site, and particulars of apparatus required, may be had on application to the Secretary, at the office of the company, 56, High-street, Rochester

Plans to be delivered on or before February 29th, 1876.

By order, W. SYMS, Secretary.

themselves for re-election.

The Transfer-books of the corporation will be closed on the 23rd instant, and reopened on the 10th January, 1876. By order of the Court of Directors,

JAS. CLARK, Secretary.

13, Bishopsgate street Within, E.C., 11th December, 1875.

THE VAN MINING COMPANY
(LIMITED).

Notice is hereby given, that the directors have THIS DAY DECLARED a
DIVIDEND of £11,280, being FITTEEN SHIBLINGS PER SHARE on the
15,000 shares in this company, PAYABLE (free of income tax) on and after the
l4th proxime.

The Transfer Books will be closed from the 8th to the 15th January, both days inclusive.

By Order, W. J. LAVINGTON, Secretary.

No. 144, Austinfriars, E.C., December 31, 1875.

USSIAN MINING AND IRONWORKS COMPAN (PREUSSISCHE-BERGWERKS-UND-HUTTEN-ACTIEN-GESELLSCHAFT).

(FREUSSISCHE-BERGWERKS-UND-HUTTEN-ACTIEN-GESELLSCHAFT).

PAYMENT OF INTEREST UPON PRIORITY OBLIGATIONS.

The INTEREST upon PARTIAL OBLIGATIONS for the half-year edited by the statement of the half-year edited by the statement of the statement o

PROMOTERS or FINANCIERS, who are in a position to RAISE CAPITAL for WORKING a MINE already in work on a small scale, with machinery eracted, may meet with an undertaking worthy of their attention, by applying to "W. P. M.," care of Mr. J. Murray, 7, Victoria Parade, Torquay,

In the Court of the Vice-Warden of the Stannaries.

IN the MATTER of the COMPANIES ACTS, 1862 and 1867, and of the NEW DOLCOATH TIN AND COPPER MINING COMPANY (LIMITED).—Notice is hereby given, that ALL CREDITORS of the above-named company are required, on or before the 8th day of January next, to SEND IN their NAMES and ADDRESSES, and the AMOUNTS and PARTICULARS of their CLAIMS to CHARLES WILLIAM CLINTON, the 'difficial Liquidator of the said Company, at the Stannaries Court Office, in Truro, within the said Stannaries. Dated Registrar's Office, Truro, December 23, 1875.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACTS, 1862 and 1867, and in the MATTER of the NEW DOLCOATH TIN AND COPPER MINING COMPANY (LIMITED).—The Vice-Warden has, by an Order made in the above Matter, bearing date the 22nd day of December inst., APOINTED CHARLES WILLIAM CLINTON, of Trure, within the said Stannaries, an Officer of the said Court, to be absolutely the OFFICIAL LIQUIDATOR of the above-named Company.

Dated Registrar's Office, Trure, December 23, 1875.

CORNWALL.
SALE OF VERY VALUABLE MINERAL AND OTHER PROPERTY, Including PART of the DUES from WEST CHIVERTON, &c.

A N AUCTION WILL BE HELD, BY MR. THOMAS R. OLVER, at the Royal Hotel, Truro, on the 12th January, 1876, at Three o'clock in the fternoon, for SELLING, subject to the conditions to be produced, the LIFE INTEREST OF A GENTLEMAN,

LIFE INTEREST OF A GENTLEMAN,

Aged about 28 years, in various properties, embracing, amongst other lots—
LOT 1.—ONE-SILTH of the MINES and MINERALS under the Manor of
Ventongimps, in Perranzabuloe, Cornwall. The celebrated West Chiverton Mine
(from which the owner of the one-sixth, now offered for sale, has received on the
average upwards of £500 per annum as dues) is in Ventongimps, as are also the
mines formerly known as Great South Chiverton, Wentworth Consols, and part
of Chiverton Moor.

LOT 4.—ONE SILTH of certain MINERALS in the Manor of Goonearle, in St.
Agnes, Cornwall. The setts now or formerly known as North Treskerby, Wheal
Rose, East Downs, Wheal Briton, and others are situate in Goonearle.
LOT 5 includes portions of the MINERALS in Chilly and Chytodden, Trevaunance, Bolster, Trewartha, and Towan, in St. Agnes. The setts now or formerly
known as St. Agnes Consols, Wheal Charlotte, Wheal Towan, &c., are either wholly
or in part within the above estates.
For further particulars, application should be made to Messrs. Oliver and
Sons, Auctioneers and Land Valuers, Falmouth; or to Messrs. Stone, King, and
King, Solicitors, Bath; Messrs. Pergrana and Hodgekinson, Solicitors, Bath;
Mr. Killyers Bartrum, Solicitor, Bath; or at the offices of
S. T. G. DOWNING, Solicitor, Redruth.

Dated November 22nd, 1875.

FFOY COLLIERY.

FFOX COLLIERY.

TO BE SOLD, BY PUBLIC AUCTION, by Order of the Mortgagees, by Mr. THOMAS HAND, at the Stepney Arms Hotel, Lianelly, in the county of Carmarthen, in One Lot, on Thursday, January 27th, 187s, at Three o'clock in the afternoon, ALL that LEASEHOLD PROPERTY known by the name of THE FFOY COLLIERY,

SHARES IN A CELEBRATED MINING PROPERTY

IN CHILI, YIELDING LARGE PROFITS, FOR SALE.

The BING LARGE PROFITS, FOR SALE.

TO BE SOLD, BY AUCTION, at the Mart. Tokenhouse-yard, in the City of London, on Tuesday, the 23rd day of May, 1876, at Two o'clock precisely, by MESSRS. DRIVER, in One or more Lots, THREE SHARES (in Chili designated Barras) in the CARRIZALILLO MINING COMPANY. The company is divided into 24 shares only. The CARRIZALILLO COMPANY own the celebrated DESCUBRIDORA HINE, and the three adjoining setts of SAN JUAN, CANCHAS, and SAN FRANCISCO, which are all worked under one administration, and are situate about thirty-three miles from the Pert of Pan de Azucar, from whence there is a good road.

CISCO, which are all worked under one administration, and are situate about thirty-three miles from the Pert of Pan de Azucar, from whence there is a good road.

The DESCUBRIDORA MINE has been working since 1859, and has yielded large profits. There are two steam-engines at work, one of 20-horse power and one of 3-horse power, for drawing, and there is also a newly-creeted powerful engine, with Blake's crusher attached; by the use of the latter the company is enabled to dress and return the large accumulation of low-produce ore, which will now give a considerable profit. The mine is in thorough working order, and well stocked with materials, rails, jiggers, crushers, &c.

The adjoining setts of SAN JUAN, CANCHAS, and SAN FRANCISCO were acquired for the purpose of securing the ground around the Descubridora Mine, and they have since been worked on a limited scale. There is also a shop, which supplies the workpeople, and also horses, carts, and mules.

Also the VEGA WASHING AND JIGGING ESTABLISHMENT, with yards, houses, shop, and stores, about nine miles from Descubridora (a tramroad is being laid down from the mine, which will greatly lessen the costs of carriage to the Vega). There are also dwelling-houses, bake-house, yards, store-rooms, ore-floors, and mole at Pan-de-Azucar, with convenient launches for use in loading ships with the ore; and there is also belonging to the company a quinchique establishment, a watering place, situate about eleven miles from Pan-de-Azucar, on the road to Descubridora, with dwelling-house, shop, store, mule yard, water carts, mules, and harness; and in Chanaral Port a dwelling-house of eight rooms, and spacious baloony and store below, with good counting house.

The company also have at Chanaral other houses of eight rooms, and spacious baloony and store below, with good counting house.

The company also have at Chanaral other houses of eight rooms, and spacious baloony and store below, with good counting house.

The company also have at Chanaral other houses of eight rooms, and

THE HENDON SPELTER WORKS.

TO CAPITALISTS, PROMOTERS OF PUBLIC COMPANIES, & OTHERS.

FOR SALE, in consequence of the Death of the late Senior Partner, John Candlish, M.P., the SPELTER WORKS, situate at Hendon, in the borough of Sunderland, in the county of Durham, carried on under the style of "PIEH ENDON SPELTER COMPANY."

The works are situated within one mile of the well-known docks of the port of Sunderland, and adjoining the Hartlepool Branch of the North Eastern Railway, with which they are connected by high and low level sidings, and thereby placed in communication with all parts of the United Kingdom. Their position, within easy distance of both the ports of Newcastle and Sunderland, is very advantageous for the cheap importation of raw material, as also the forwarding of the manufactured article either by land or sea.

The ground on which the works are bullt can be either bought out or bought on a yearly perpetual ground rent, and any quantity under 20 acres can be included in the sale.

Being situated in the midst of the Durham Coal Field first of the contract of the contract of the contract of the property of the contract of the contract

a yearly perpetual ground rent, and any quantity under 20 acres can be included in the sale.

Being situated in the midst of the Durham Coal Field fuel of the best description can be obtained at a cost below almost any other part of the United Kingdom. There are 19 workmen's cottages, which can be bought with the works.

The works contain 24 zine furnaces, capable of producing 70 tons of metal a week, as also calciners, potiofts, machinery, blacksmiths' and joiners' shops, &c., of sufficient capacity for a much larger number. The works can, therefore, be doubled at a comparatively small cost.

The quality of the metal made at these works is well known, and it, therefore commands a ready sale at the highest prices.

Attached to the high level sidings are large depôts for coal, ore, &c.

The goodwill would, of course, go with the works, and they will be sold subject to all stock being taken at a fair market value.

The purchaser can also have the option of buying the CALCINING WORKS and VALUABLE MINES in SPAIN, thus allowing of the economical and regular supply of the raw material, and saving the mineowers' and merchants' profits. As the ore from the South of Spain generally comes as ballast for ships laden with esparto, thas been brought for this company at an average cost of 7s. per ton, sometimes as low as 4s. 6d.

Further particulars can be had en application to the company.

TO CAPITALISTS OR PROMOTERS DESIRING TO MAKE MONEY.

TO BE SOLD, a COLLIERY ROYALTY in NORTH WALES, close to rail or shipping nort; several shafts partially sunk; coal fully proved POUR SEAMS of good HOUSE and STEAM. COALS, in an area of upwards of a cress of surface. It adjoins the West Mostyn Coal Field, just successfully anched, where under seams (including Catner) have been proved in addition to a above, so that eminent engineers state that the available coal in this royalty

the above; so that eminent engineers state that the available coal in this royalty may be 88 feet thick.

Present holder will arrange to sell the entire to an individual or company for what it has cost him, dividing all profit made above, which, even in a normal state of the coal trade, must be large. Certain and safe surveys by eminent Staffordshire and Welsh engineers have already been made.

Address, "Nil Desperandum," care of Mr. Watsen, 15, Fenwick street, Liverpool.

IN VOLUNTARY LIQUIDATION UNDER THE COMPANIES ACT, 1862. THE NEW LLANGYNOG LEAD MINING COMPANY (LIMITED).

(LIMITED).

TO BE SOLD, BY PRIVATE TREATY, ALL the BENEFICIAL INTEREST of the New Liangynog Lead Mining Company (Limited) in the LLANGYNOG LEAD MINES, comprising all the valuable, productive, and extensive mines, veins, beds of lead, ores of lead, and other metals and minerals known collectively as the Liangynog Lead Mines, and in the reservoir, water-supply rights, easements, and interests thereto belonging, situate in the several parishes of Liangynog, Lianrhaiadryn-Mochnant, Hirnant, and Fennant, in the county of Montgomery; and also the WHOLE of the movable PLANT and MACHINERY of the said company.

The Liangynog Lead Mines have been a highly productive and dividend-paying property.

The Llangynog Lead Mines have been a highly productive and dividend paying property.

The mines, machinery, and plant are in working order, and considerable quantities of ore are now being raised.

The works may be inspected at any time upon application to the Manager at the Mines. The leases and agreements may be inspected at the offices of Messrs. LONGUEVILLE, JONES, and WILLIAMS.

All further information may be obtained, and maps of the property inspected, on application te Messrs. Geo. HASWILL and SONS, 84, Foregate-street, Chester; to HENRY DENNIS, Esq., Mining Engineer, Hafod-y-Bweh, Ruabon; or to Messrs. Longueville, Jones, and WILLIAMS, Solicitors, Oswestry.

MINERALS.

MINERALS.

OAL FOR SALE, AND LEASE, BY PRIVATE TREATY, in close proximity to the town of NOTTINGHAM, from which a large gents only treated with.

Apply, by letter only in the first instance, to Mr. G. H. Weight, Mining Engineer, 22, Low Pavement, Nottingham.

IMPORTANT TO MINE, COLLIERY, AND QUARRY PROPRIETORS.

PROPRIETORS.

N SALE, a good STEAM ENGINE, of about 200-horse power, with Cornish valves and hand gear; cylinder, 4 ft. 10 in.; stroke, 9 ft.; length of beam, 32 ft., and 5 ft. 6 in. deep; with pedestals, bed plate, &c., &c. Made at Penryn Foundry, 1829; No. 52.

It is situated within half a mile of a railway station, and also at a convenient place to be sent for shipment. If not sold within a fortnight, it will be taken down. WILL BE SOLD CHEAP.
Apply to Messrs. Lewis and Roberts, Snowdon-street, Portmadoc, North Wales. December 21, 1875.

OR SALE:—
ONE 60 ft. OVERSHOT WATER WHEEL, 2 ft. 6 in. breast, iron rings, entre pieces, shaft, wooden arms, buckets, backing.
ONE 12 ft. by 2 ft. 6 in. ditto ditto
ONE 12 head SET OF STAMPS, complete.
ONE LARGE PUMP CRANK, with four pin holes.
ONE 13 ft. IRON BOB.
EIGHT LARGE GEAR WHEELS.
ONE ORE CRUSHER, complete.
A lot of PUMP RODS, JOINTS, TRAM WAGONS, PUMPS, &c., &c.
The whole of the above has been little used; is in good condition: will be sold head, together or separate.

neap, together or separate.
PORTABLE ENGINES, PUMPS, SAW TABLES, always on sale or hire.

POLYBLANK AND CO., ENGINEERS AND BOILER MAKERS,

NEWTON ABBOT AND DARTMOUTH.

SINKING, WINDING COAL, &c.

FOR SALE, a 14-horse power PORTABLE STEAM ENGINE, with two cylinders, link motion reversing gear, drum 5 ft. diameter, with gearing to wind and pump, ready for delivery.
Also, a 35-horse power PORTABLE ENGINE, a 9 horse and am 18-horse power VERTICAL, all with link motion reversing gear—suitable for mining operations.

BARROWS AND STEWART ENGINEERS, BANBURY.

ON DENSING AND NON-CONDENSING HORIZONTAL
STEAM ENGINES, of the highest class, at low prices.
PUMPING AND WINDING ENGINES. First-class references.
ENGINEER'S TOOLS of all kinds, unrivalled for arrangement and general usefulness, at low prices. Inspection invited.

POLLOCK AND MACNAB,
BRITANNIA IRONWORKS, HYDE, NEAR MANCHESTER.

CONSIDERATIONS IN FAVOUR OF FORMING AN ASSOCIATION for the purpose of PURCHASING AND WORKING MINES in CALIFORNIA and NEVADA.

The Undersigned represents the Owners of—GRAVEL CLAIMS.
QUARTZ MINES OF GOLD.
QUARTZ MINES OF SILVER.
CINNABAR MINES.

All being more or less developed.

All being more or less developed.

The owners not having sufficient means to continue the working, seek the cooperation of capitalists, who would employ their own staff, advancing cash to pay
for machinery and working expenses, only returning to the vendors such a share
of the profits as may be agreed upon. An undoubted title shall be given to those
advancing the funds.

For further particulars apply by letter addressed to—

WM. MAC CANN,

42, CHAPEL WALKS, LIVERPOOL; or 42, GREAT RUSSELL STREET,

THE LONDON CRITERION OF MACHINERY,

TOOLS, HARDWARE, METALS, &c.

A Monthly Price-List and Advertiser of New and Second-hand Machinery,
Tools, Contractors' Plant, and Materials on Sale.

To all users of steam-power and others requiring machinery of any description
his list will be found most useful, and for constant reference an invaluable guide
o engineers, shippers, and public companies.
Specifications, plans, and estimates supplied for all kinds of machinery, tools,
and materials.

nd materials.

Advertisements and entries received up to the 25th of each month.

Send stamps for copy.

J. T. RODDA AND CO., ENGINEERS,

Contractors, Iron, Steel, Hardware, and Machinery Commission Agents, 122, CANNON STREET, LONDON, E.C.

NICKEL AND COBALT REFINING, AND GERMAN SILVER
WORKS, 16, OOZELL STREET NORTH, BIRMINGHAM.
STEPHEN BARKER begs to inform the Trade that he has the following articles for sale:

REFINED METALLIC NICKEL.
REFINED METALLIC BISMUTH.
OXIDE OF COBALT.
GERMAN SILVER—IN INGOTS, SHEET, WIRE, &c.
NICKEL AND COBALT ORES PURCHASED.

GOLDENHILL COBALT, NICKEL, COLOUR, BORAX, AND CHEMICAL WORKS,
NEAR STOKE-UPON-TRENT, STAFFORDSHIRE
JOHN HENSHALL WILLIJAMSON, MANUFACTURER AND REFINER!
Purchaser of Borate of Lime and Tincal.

IMPORTANT TO STEAM USERS. J. BERGER SPENCE AND CO.'S

GLOBE STEAM BOILER POWDER

Effects a saving of over 15 per cent. in the cost of steam.
Increases the durability of the boilers.
Avoids the continual annoyances caused by scaling.
Produces complete circulation of the water in the boiler.
One pound per 4-horse power dissolved in the feed-water daily.

Price 20s. per cwt., delivered in casks of 10 cwts. each.

7 5, MARK LANE, LONDON.

WILTON'S MATHEMATICAL INSTRUMENT ESTABLISHMENT, REMOVED from St. Day to A. JEFFERY'S, CAMBORNE.

W. H. WILTON begs to thank his friends for their liberal support for so many years, and informs them that (having opened business at Valparaiso) he has now declined business in England in favour solely of Mr. A. JEFFERY, MATHEMATICAL INSTRUMENT MAKER, CAMBORNE, whom he considers (having been an assistant to his father for several years) is in every way capable of creditably maintaining the good name universally awarded to Wilton's instruments.

A. JEFFERY

A. JEFFENY

Respectfully begs to inform Mine Managers, Surveyors, Engineers, &c., the having purchased Mr. Wilton's business, and the very valuable acquisitions and appliances belonging thereto, he has enlarged his Mathematical Instrument Manufactory, and is prepared to supply Theodoltries, Diale, Pocket Dials, Levels, Traversing and Plain Protractors, Caess of Drawing Instruments, Mrasuring Chains and Tapes, Assayers' Scales and Weights, Ex-Gine Counters, and, in short, every description of Instruments used in Surveying, Measuring, Mapping, &c.

Repaiving in all its branches promptly attended to.

NEW EDITION OF MITCHELL'S ASSAYING,
Just published in 8vo., with 199 woodcuts, price 31s. 60
NUAL OF PRACTICAL ASSA

A MANUAL OF PRACTICAL ASSAYING,
By JOHN MITCHELL, F.C.S.
Fourth Edition, in which are incorporated all the recent valuable improvements in Assaying made in this country and abroad, including Volumetric and Colorimetric Assays, and the Blowpipe Assays.

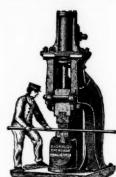
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B. & S. MASSEY, OPENSHAW, MANCHESTER.

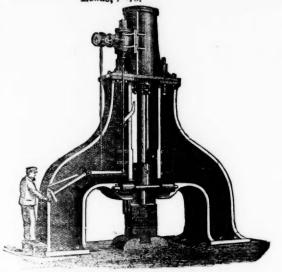
PRIZE MEDALS Awarded:—Paris, 1867; Havre, 1868; Highland Society, 1870; Liverpool, 1871; Moscow, 1872; Vienna, 1873; Scientific Industry Society, 1875.

Farentees and Makers of Double and Single-acting STEAM HAMMER S of all sizes, from ½ cwt. to 20 tons, it is self-acting or hand motions, in either case giving a percetly DEAD BLCW, while the former may be worked by hand when desired. Large Hammers, with Improved Framing, in Cast or Wrought Iron. Small Hammers, working up to 500 blows per minute, in some cases coing worked by the Foot of the Smith, and not requiring any separate Driver.





General Smithy Hammer.



Steam Hammer for Hoavy Forgina

From 60 to 100 Steam Hammers and Steam Stamps may usually be seen in construction at the Works.



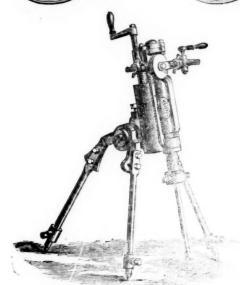
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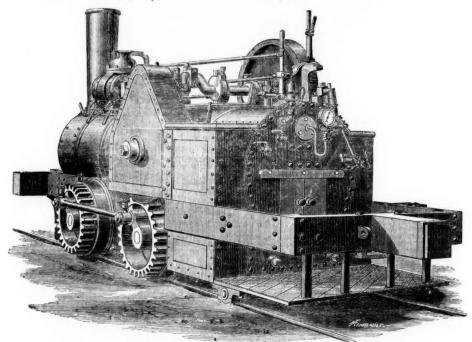
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